

FIGURE 1

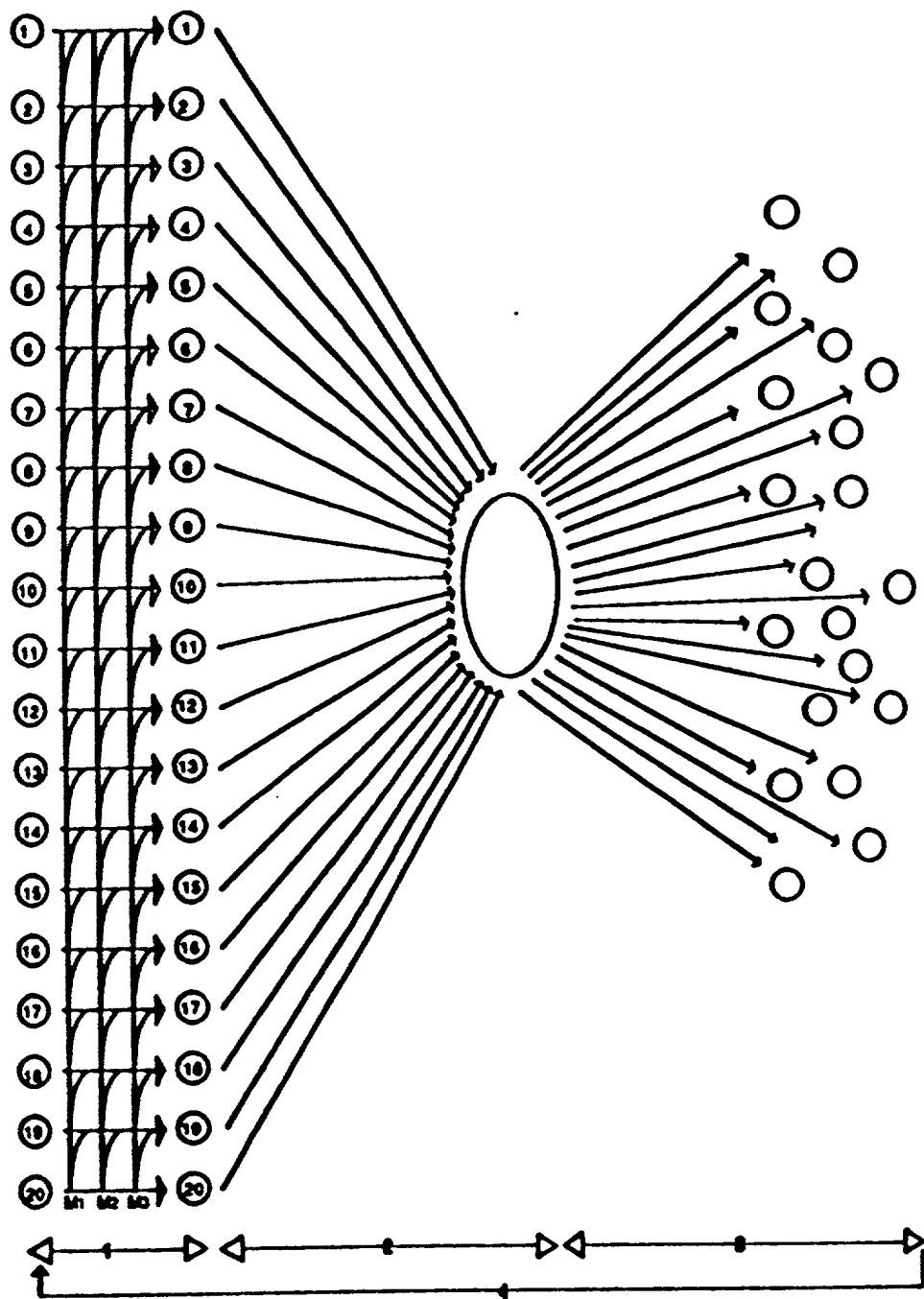


FIGURE 2

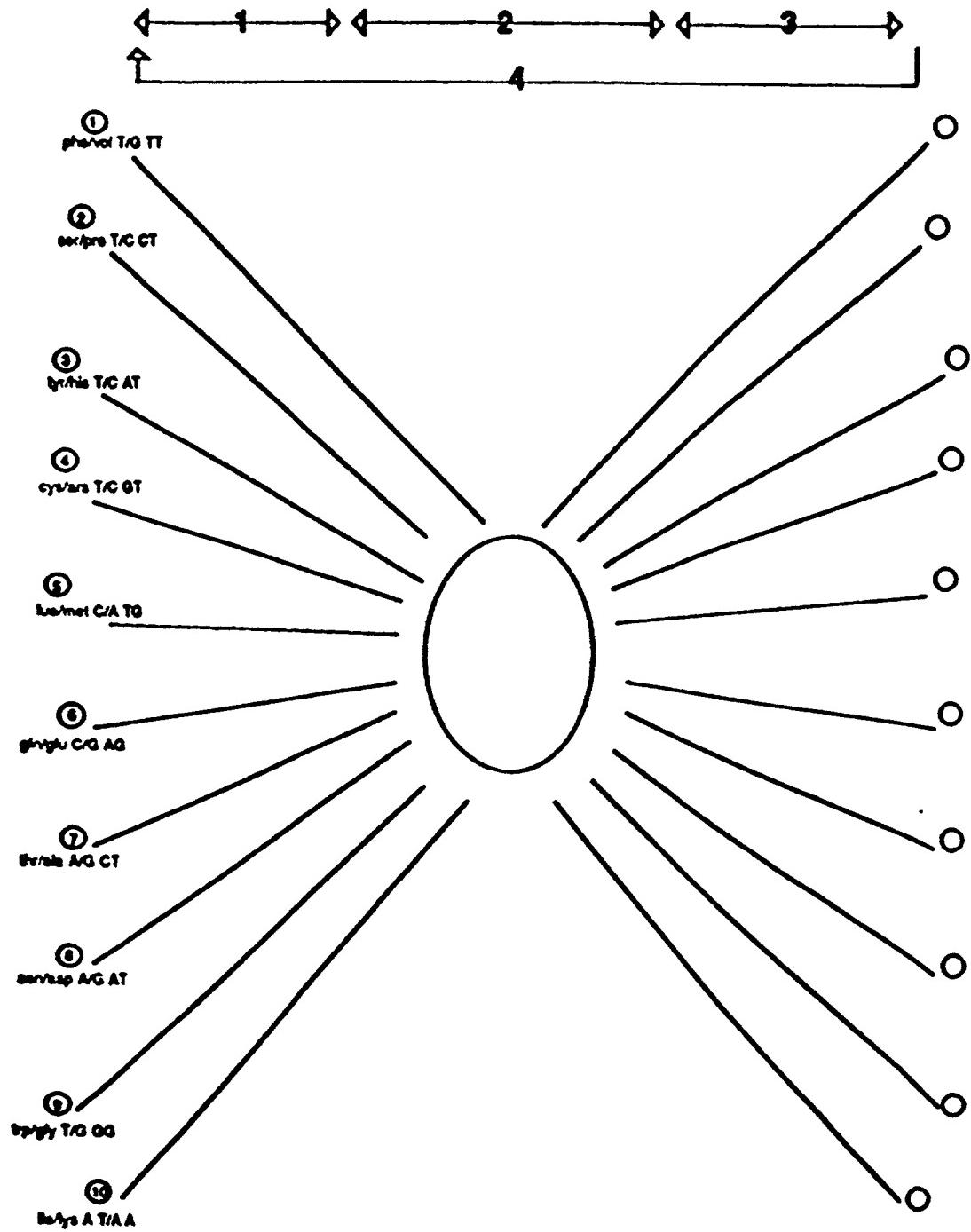


Figure 3

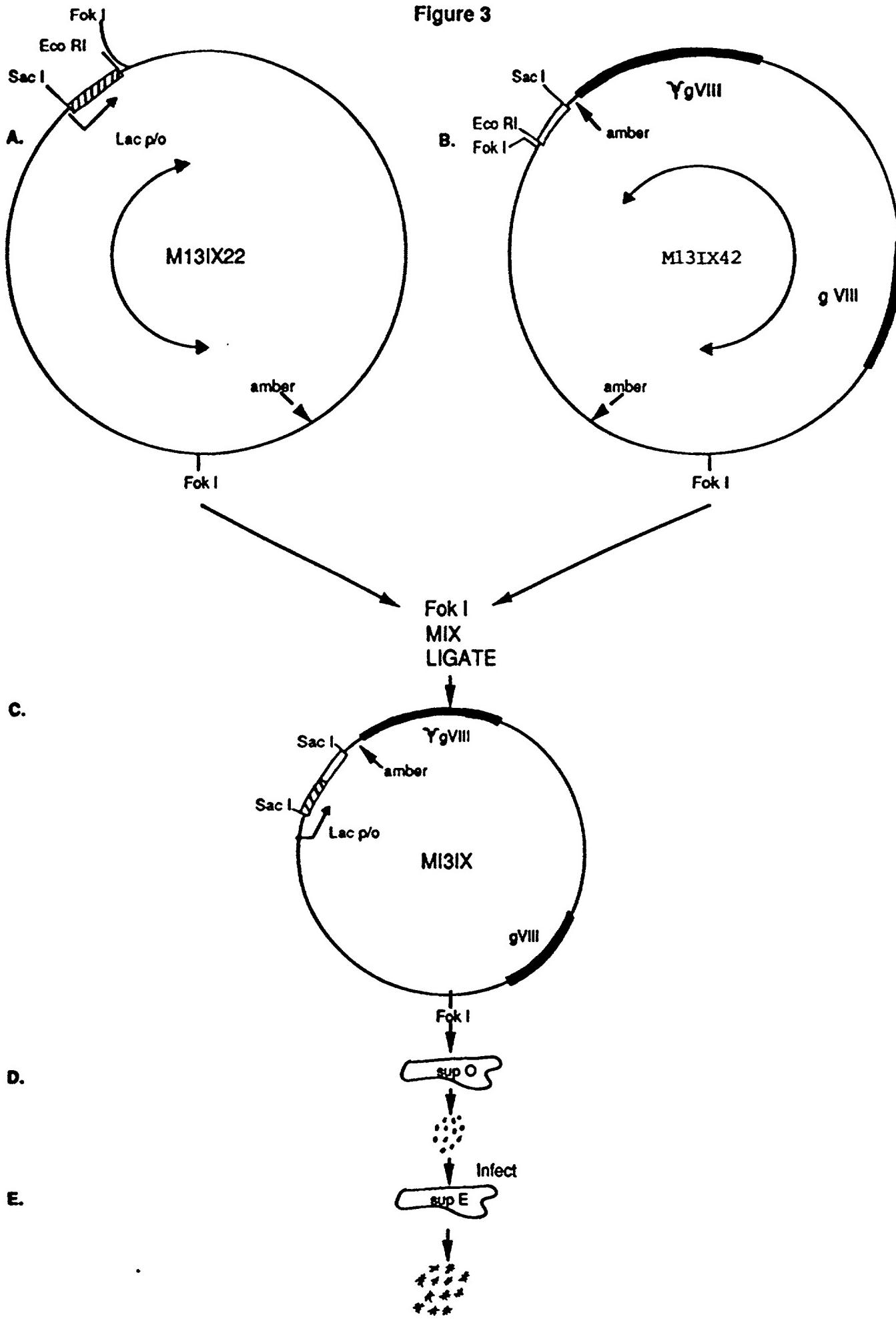


Figure 4

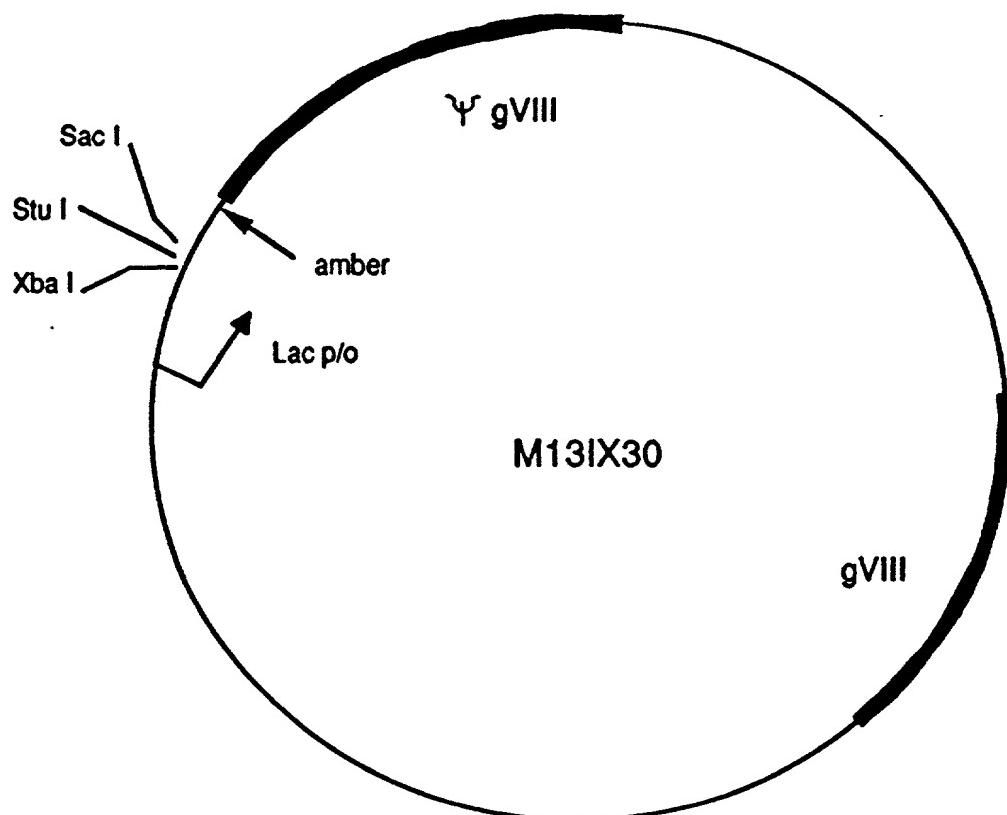


FIGURE 5-1

M13IX42

	10	20	30	40	50	60
1	AATGCTACTA CTATTAGTAG AATTGATGCC			ACCTTTTCAG CTCGGCCCC AAATGAAAAT	60	
61	ATAGCTAAC AGGTATTGA CCATTGCGA			AATGTATCTA ATGGTCAAC TAAATCTACT	120	
121	CGTTCCAGA ATTGGGAATC AACTGTTACA			TGGAATGAAA CTTCCAGACA CCGTACTTTA	180	
181	GTTGCATATT TAAAACATGT TGAGCTACAG			CACCAAGATTC AGCAATTAAAG CTCTAAGGCC	240	
241	TCTGCAAAAA TGACCTCTTA TCAAAGGAG			CAATTAAAGG TACTCTCTAA TCCTGACCTG	300	
301	TTGGAGTTG CTTCCGGTCT GGTCGCTTT			GAAGCTCGAA TTAAAACCGG ATATTGAAAG	360	
361	TCCTTCGGGC TTCCCTTAA TCTTTTGAT			GCAATTCCGCT TTGCTCTGA CTATAATAGT	420	
421	CAGGGTAAAG ACCTGATTT TGATTTATGG			TCATTCTCGT TTTCTGAAC GTTAAAGCA	480	
481	TTTGAGGGGG ATTCAATGAA TATTTATGAC			GATTCCGCAG TATTGGACGC TATCCAGTCT	540	
541	AAACATTTA CTATTACCCC CTCTGGCAAA			ACTTCTTTG CAAAAGCCTC TCGCTATTTT	600	
601	GGTTTTTATC GTCGCTGGT AAACGAGGGT			TATGATAGTG TTGCTCTTAC TATGCCTCGT	660	
661	AATTCCCTTT GGCGTTATGT ATCTGCATTA			GTTGAATGTG GTATTCTAA ATCTCAACTG	720	
721	ATGAATCTT CTACCTGAA TAATGTTGTT			CCGTTAGTTC GTTTTATTAA CGTAGATTTT	780	
781	TCTTCCCAAC GTCCCTACTG GTATAATGAG			CCAGTTCTTA AAATCGCATA AGGTAAATTCA	840	
841	CAATGATTAA AGTTGAAATT AAACCATCTC			AAGCCCAATT TACTACTCGT TCTGGGTGTT	900	
901	CTCGTCAGGG CAAGCCTAT TCACTGAATG			AGCAGCTTIG TTACGTGAT TTGGGTAATG	960	
961	AAATATCCGGT TCTTGTCAAG ATTACTCTG			ATGAAGGTCG GCCAGCCTAT GCGCCTGGTC	1020	
1021	TGTACACCGT TCATCTGTCC TCTTCAAAG			TTGGTCAGTT CGGTTCCCTT ATGATTGACC	1080	
1081	GTCTGCGCCT CGTTCCGGCT AAGTAACATG			GAGCAGGTGCG CGGATTTCGA CACAATTAT	1140	
1141	CAGGCGATGA TACAATCTC CGTTGACTT			TGTTTCGCGC TTGGTATAAT CGCTGGGGT	1200	
1201	CAAAGATGAG TGTTTAGTG TATTCTTCG			CCTCTTTCGT TTTAGGGTGG TGCCCTCGTA	1260	
1261	GTGGCATTAC GTATTTTTAC CGTTAATGG			AAACTCCCTC ATGAAAAAGT CTTAGTCCT	1320	
1321	CAAAGCCTCT GTAGCCGGT CTACCTCGT			TCCGATGCTG TCTTCGCTG CTGAGGGTGA	1380	
1381	CGATCCCGCA AAAGCCGCT TAACTCCCT			GCAAGCCTCA GCGACCGAAT ATATCGTTA	1440	
1441	TGCGTGGGGC ATGGTTGTT TCATGTCGG			CGCAACTATC GGTATCAAGC TGTTAAGAA	1500	
1501	ATTCACCTCG AAAGCAAGCT GATAAACCGA			TACAATTAAA GGCTCCTTT GGAGCCTTTT	1560	
1561	TTTTGGAGA TTTCACGTT GAAAAAATTAA			TTATTCGCAA TTCCCTTACT TGTTCCCTTC	1620	
1621	TATTCTCACT CCGCTGAAC TGTGAAAGT			TGTTTAGCAA AACCCCATAC AGAAAATTCA	1680	
1681	TTTACTAACG TCTGGAAAGA CGACAAACT			TTAGATCGTT ACGCTAACTA TGAGGGTTGT	1740	
1741	CTGTGGAATG CTACAGGCGT TGAGTTGT			ACTGGTGACG AAACTCAGTG TTACGGTACA	1800	
1801	TGGGTTCTA TTGGGTTGTC TATCCCTGAA			AATGAGGGTG GTGGCTCTGA GGGTGGCGT	1860	
1861	TCTGAGGGTG GCGGTTCTGA GGGTGGCGGT			ACTAAACCTC CTGAGTACGG TGATACACCT	1920	
1921	ATTCCGGGCT ATACTTATAT CAACCCCTCTC			GACGGCACTT ATCCGCTCTG TACTGAGCAA	1980	
1981	AAACCCGCTA ATCTTAATCC TTCTTCTGAG			GAGTCTCACCC CTCTTAATAC TTTCATGTTT	2040	
2041	CAGAATAATA CGTTCGGAAA TAGGCAGGGG			GCATTAACCTG TTATACGGG CACTGTTACT	2100	
2101	CAAGGCAC TG ACCCGTTAA AACTTATTAC			CACTACACTC CTGATACATC AAAAGCCATG	2160	
2161	TATGACGCTT ACTGGAACGG TAAATTACAGA			GACTGCGCTT TCCATTCTGG CTTIAATGAA	2220	
2221	GATCCATTG TTTGTGAATA TCAAGGCCAA			TCGTCTGACC TGCCCTCAACC TCCGTCAAT	2280	
2281	GCTGGCGGGC GCTCTGGTGG TGTTCTGGT			GGCGGCTCTG AGGGTGGTGG CTCTGAGGGT	2340	
2341	GGCGGTTCTG AGGGTGGCGG CTCTGAGGGG			GGCGGTTCCG GTGGTGGCTC TGTTCCGGT	2400	
2401	GATTTTGATT ATGAAAAGAT GCGAAACGCT			AATAAGGGG CTATGACCGA AAAATGCCAT	2460	
2461	GAAAACGCGC TACAGCTCTGA CGCTAAAGGC			AAACTTGATT CTGTCGCTAC TGATTACGGT	2520	
2521	GCTGCTATCG ATGTTTCAT TGTTGACGTT			TCCGGCCTTG CTAATGGTAA TGTTGCTACT	2580	
2581	GGTGATTGTT CTGGCTCTAA TTCCCAAATG			GCTCAAGTCG GTGACGGTGA TAATTACCT	2640	
2641	TTAATGAATA ATTTCCGTCAT ATATTACCT			TCCCTCCCTC AATCGGGTGA ATGTCGCCCT	2700	
2701	TTTGTCTTTA CGCCTGGTAA ACCATATGAA			TTTTCTATTG ATTGTGACAA AATAAACTTA	2760	
2761	TTCCCGGGTG TCTTGTGTT TCTTTTATAT			GTGCCCCACT TTATGTAATGT ATTTCTACG	2820	
2821	TTTGCTAACAA TACTGCGTA TAAGGAGCT			TAATCATGCC AGTTCATTTG GTTATTCGGT	2880	
2881	TATTATTGCG TTCCCTCGGT TTCCCTCTGG			TAACCTTGTG CCGGTATCTG CTTACTTTTC	2940	
2941	TTAAAAAGGG CTTCGGTAA ATAGCTATTG			CTATTTCATT GTTCTTGCT CTTATTATTG	3000	
3001	GGCTTAACCTC AATTCTGTG GGTATCTCT			CTGATATTAG CGCTCAATTA CCCCTGACT	3060	
3061	TTGTTCAAGGG TGTTCAGTTA ATTCCTCCGT			CTAATGCCGT TCCCTGTTT TATGTTATTIC	3120	
3121	TCTCTGTAAA GCGTGTATT TTCACTTTG			ACGTTAAACA AAAATCGTT TCTTATTG	3180	
3181	ATTGGGATAAA ATAATATGGC TGTATTGTTT			GTAACTGGCA AATTAGGCTC TCGAAAGACG	3240	
3241	CTCGTTAGCG TTGGTAAGAT TCAGGATAAA			ATTGTAGCTG GGTGAAAAT AGCAACTAAT	3300	
3301	CTTGATTAA GGCTCAAAA CCTCCCGCAA			GTGGGGAGGT TCGCTAAAAC GCCTCGCGTT	3360	
3361	CTTAGAATAAC CGGATAAGCC TTCTATATCT			GATTTGCTTG CTATTGGGCG CGGTATATGAT	3420	
3421	TCCTACGATG AAAATAAAAA CGGCTTGCTT			GTTCTCGATG AGTGCAGGTAC TTGGTTAAT	3480	
3481	ACCCGTTCTT GGAATGATAA GAAAAGACAG			CCGATTATTG ATTGGTTTCT ACATGCTCGT	3540	
3541	AAATTAGGAT GGGATATTAT CTTCCTGTGTT			CAGGACTTAT CTATTGTTGA TAAACAGGGC	3600	
3601	CGTTCTGCAT TAGCTGAACA TGTTTTAT			TGTGTCGTC TGGACAGAAAT TACTTACCT	3660	
3661	TTTGTGGTGA CTTTATATTG TCTTATTACT			GGCTCGAAA TGCCTCTGCC TAAATTACAT	3720	
3721	GTGTTGGCTTG TAAATATGG CGATCTCAA			TTAAGCCCTA CTGTTGAGCG TTGGCTTTAT	3780	
3781	ACTGGTAAGA ATTGTATAA CGCATATGAT			ACTAAACAGG CTTTTCTAG TAATTATGAT	3840	

FIGURE 5-2

3841 TCCGGTGT TT ATTCTTATTT AACGCCTAT	TTATCACACG GTCGGTATT CAAACCATT A 3900
3901 AATTTAGGTC AGAAGATGAA GCTTACTAAA	ATATATTGA AAAAGTTTTC ACGCGTTCTT 3960
3961 TGTCTTGC GA TTGGATTTC ATCAGCATTT	ACATATACTT ATATAACCCA ACCTAAGCCG 4020
4021 GAGGTTAAAA AGGTAGCTC TCAGACCTAT	GATTTGATA AATTCACTAT TGACTCTTCT 4080
4081 CAGCGCTTA ATCTAAGCTA TCGCTATGTT	TTCAAGGATT CTAAGGAAA ATTAATTAAAT 4140
4141 AGCGACGATT TACAGAAGCA AGGTTATTCA	CTCACATATA TTGATTATG TACTGTTCC 4200
4201 ATTAAAAAGG TAATTCAAAT GAAATTGTTA	AATGTAATTA ATTGGTTTT CTTGATGTTT 4260
4261 GTTTCATCAT CTTCTTTGC TCAGGTATT	GAAATGAATA ATTGCCCTCT CGCGGATTTT 4320
4321 GTAACCTGGT ATTCAAAGCA ATCAGGGCAA	TCCGTTATTG TTCTCCCGA TGAAAAGGT 4380
4381 ACTGTTACTG TATATTTCATC TGACGTTAAA	CCTGAAAATC TACCGAATT CTTTATTCT 4440
4441 GTTTTACGTG CTAATAATT TGATATGGTT	GGTCAATTG CTTCCATTAT TTAGAAGTAT 4500
4501 AATCCAAACA ATCAGGATT AATTGATGAA	TTGCCATCAT CTGATAATCA GGAATATGAT 4560
4561 GATAATTCCG CTCCCTCTGG TGTTTCTTT	GTTCCGAAA ATGATAATGT TACTCAAAC 4620
4621 TTTAAAATTA ATAACGTTCG GCGAAAGGAT	TTAACACGAG TTGTCGAATT GTTGTAAAG 4680
4681 TCTAACTCTT CTAAATCCTC AAATGTATTAA	TCTATTGACG GCTCTAATCT ATTAGTTGTT 4740
4741 ACTGCACCTA AAGATATTAA AGATAACCTT	CCTCAATTCC TTTCTACTGT TGATTTGCCA 4800
4801 ACTGACCCAGA TATTGATGGA GGTTTGTATA	TTTGAGGTTC AGCAAGGTGA TGCTTTAGAT 4860
4861 TTTTCATTTG CTGCTGGCTC TCAGCGTGGC	ACTGTTGCAG GCGGTGTTAA TACTGACCGC 4920
4921 CTCACCTCTG TTTTATCTC TGCTGGTGGT	TCGTTCCGTA TTTTAATGG CGATGTTTTA 4980
4981 GGGCTATCG TTCGGCCTT AAAGACTAAT	AGCCATCAA AAATATTGTC TGTGCCACGT 5040
5041 ATTCTTACCG TTCAGGTCA GAAAGGGTTCT	ATCTCTGTTG GCCAGAAATG CCCTTTTATT 5100
5101 ACTGGTCGTG TGACTGGTGA ATCTGCAAAT	GTAATAATC CATTTCAGAC GATTGAGCGT 5160
5161 CAAAATGTTAG GTATTCCAT GAGCGTTTTT	CCTGTTGCAA TGGCTGGCGG TAATATTGTT 5220
5221 CTGGATATTA CCAGCAAGGC CGATAGTTG	AGTTCTCTA CTCAGGCAAG TGATGTTATT 5280
5281 ACTAATCAA AAGATATTGCA TACAACGGGT	AATTGCGTC ATGGACAGAC TCTTTTACTC 5340
5341 GGTGGCCTCA CTGATTATAA AAACACTTCT	CAAGATCTG CGCTACCGTT CCTGTCCTAA 5400
5401 ATCCCTTAA TCGGCTCTC GTTAGCTCC	CGCTCTGATT CCAACGAGGA AAGCACGTTA 5460
5461 TACGTGCTCG TCAAAGAAC CATAGTACGC	GCCCTGTAGC GGCGCATTAA GGCGGGCGGG 5520
5521 TGTGGTGGTT ACGCCACGGC TGACCGCTAC	ACTTGCCAGC GCCCTACCGC CGCGCTCTTT 5580
5581 CGCTTCTTC CCTTCCTTC TCAGCCACGTT	CGCCGGCTTT CCCCGTCAAG CTCTAAATCG 5640
5641 GGGGCTCCCT TTAGGGTTC GATTTAGTGC	TTTACGGCAC CTCGACCCCCA AAAAATTGA 5700
5701 TTTGGGTGAT GGTCACGTA GTGGGCCATC	GCCCTGATAG ACGGTTTTTC GCCCTTGAC 5760
5761 GTTGGAGTCC ACGTTCTTA ATAGTGGACT	CTTGTCCAA ACTGGAACAA CACTCAACCC 5820
5821 TATCTCGGGC TATTCTTTG ATTATAAGG	GATTTGCCG ATTTCGGAAC CACCATCAA 5880
5881 CAGGATTTC GCCTGCTGGG GCAAACCAGC	GTGGACCGCT TGCTGCAACT CTCTCAGGGC 5940
5941 CAGGCGGTGA AGGGCAATCA GCTGTTGCC	GTCTCGTGG TGAAAGAAA AACCAACCTG 6000
6001 GCGCCCAATA CGCAAACCGC CTCTCCCGC	GCGTTGCCG ATTCTAAAT GCAGCTGGCA 6060
6061 CGACAGGTTT CCCGACTGGA AAGCGGGCAG	TGAGCGCAAC GCAATTAAATG TGAGTTAGCT 6120
6121 CACTCATAG GCACCCCAGG CTTTACACTT	TATGTTCCG GCTCTATGT TGTTGGAAT 6180
6181 TGTGAGCGGA TAACAATTTC ACACAGGAAA	CAGCTATGAC CAGGATGTAC GAATTGCGAG 6240
6241 GTAGGAGAGC TCAGGGGATC CTAGGCTGAA	GGCGATGACC CTGCTAAGGC TGCTTCAAT 6300
6301 AGTTTACAGG CAAGTGTAC TGAGTACATT	GGCTACGCTT GGGTATGGT AGTAGTTATA 6360
6361 GTTGGTGTCA CCATAGGGAT TAAATTATTC	AAAAAGTTA CGAGCAAGGC TTCTTAACCA 6420
6421 GCTGGCGTAA TAGCGAAGAG GCGCCGACCG	ATCGCCCTTC CCAACAGTTG CGCAGCCTGA 6480
6481 ATGGCGAATG GCGCTTGCC TGTTTCCGG	CACCAAGAG GGTGGCGGA AGCTGGCTGG 6540
6541 AGTGCATCT TCTGAGGCC GATAAGGTCC	TCGTCCCCTC AAACCTGCAG ATGCACGGTT 6600
6601 ACGATCGGCC CATCTACACC AACGTAACCT	ATCCCATTAC GGTCAATCC CGGTTTGTTC 6660
6661 CCACGGAGAA TCCGACGGGT TGTACTCGC	TCACATTAA TGTTGATGAA AGCTGGCTAC 6720
6721 AGGAAGGCCA GACGCGAATT ATTGTTGATG	GCGTTCCAT TGGTTAAAAA ATGAGCTGAT 6780
6781 TTAACAAAAA TTTAACGCGA ATTAAACAA	AAATTAACG TTTCACATT AAATATTGTC 6840
6841 TTATACAATC TTCTGTGTT TGCGGCTTTT	CTGATTATCA ACCGGGGTAC ATATGATTGA 6900
6901 CATGCTAGTT TTACGATTAC CGTTCATCGA	TTCTCTGTT TGCTCCAGAC TCTCAGGC 6960
6961 TGACCTGATA GCCTTGTAG ATCTCTCAA	AAATAGCTACC CTCTCCGGCA TTAATTATC 7020
7021 AGCTAGAACG GTTGAATATC ATATTGATGG	TGATTTGACT GTCTCCGGCC TTCTCACCC 7080
7081 TTTTGAATCT TTACCTACAC ATTACTCAGG	CATTGCATT AAAATATATG AGGGTTCTAA 7140
7141 AAATTTTAT CCTTGCCTG AAATAAAGGC	TTCTCCCGCA AAAGTATTAC AGGGTCATAA 7200
7201 TGTTTTGGT ACAACCGATT TAGCTTATG	CTCTGAGGCT TTATTGCTTA ATTGCTAA 7260
7261 TTCTTGCCT TGCGCTGTATG ATTATTGGA	CGTT 7294

| 10 | 20 | 30

| 40 | 50 | 60

FIGURE 6-1

M13IX22

	10	20	30		40	50	60	
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTCA	CTCGCGCCCC	AAATGAAAAT	60	
61	ATAGCTAAC	AGGTTATTGA	CCATTGCGA	AATGTATCTA	ATGGTCAAAC	TAAATCTACT	120	
121	CGTTCGAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA	180	
181	GTTGCATATT	AAAAACATGT	TGAGCTACAG	CACCAAGATT	AGCAATTAAAG	CTCTAAGCCA	240	
241	TCTGAAAAAA	TGACCTTTA	TCAAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300	
301	TTGGAGTTG	CTTCGGTCT	GGTCGCTT	GAAGCTCGAA	TTAAAACGCC	ATATTGAAG	360	
361	TCTTCGGGC	TTCCCTTAA	TCTTTTGAT	GCAATCCGCT	TTGCTCTGTA	CTATAATAGT	420	
421	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTTCTGAAC	GTAAAAGCA	480	
481	TTTGAGGGGG	ATTCAATGAA	TATTATGAC	GATTCCGAG	TATTGGACGC	TATCCAGTCT	540	
541	AAACATTTA	CTATTACCCC	CTCTGGCAA	ACTCTTTTG	CAAAGCCTC	TCGCTATTTT	600	
601	GGTTTTATC	GTCGTCGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCCTCGT	660	
661	AATTCCCTT	GGCGTTATGT	ATCTGCATTA	GTTGAATG	GTATTCTAA	ATCTCAACTG	720	
721	ATGAATCTTT	CTACCTGAA	TAATGTTGTT	CCGTTAGTT	GTTTTATTA	CGTAGATTTT	780	
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTCTTA	AAATCGATA	AGGTAATTCA	840	
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGT	900	
901	CTCGTCAGGG	CAAGCTTAT	TCACTGAATG	AGCAGCTTG	TTACGTGAT	TTGGGTAATG	960	
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020	
1021	TGTACACCCT	TCATCTGTC	TCTTCAAAG	TTGCTCAGT	CGGTTCCCTT	ATGATTGACC	1080	
1081	GTCTGCCCT	CGTTCGGCT	AAAGTACATG	GACGAGGTCTG	CGGATTTCGA	CACAAATTAT	1140	
1141	CAGGGCGATGA	TACAAATCTC	CGTTGTA	TGTTTCGCG	TTGGTATAAT	CGCTGGGGGT	1200	
1201	CAAAGATGAG	TGTTTAGTG	TATTCTTCG	CCCTCTTCG	TTAGGTG	TGCCTTCGTA	1260	
1261	GTGGCATTAC	GTATTTTAC	CGTTAATG	AAACTCCCTC	ATGAAAAGT	CTTACTGCT	1320	
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCCTCGT	TCCGATGCTG	TCTTCGCTG	CTGACGGTGA	1380	
1381	CGATCCCGCA	AAAGCGCCT	TTAACCTCC	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440	
1441	TGCGTGGGG	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500	
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAA	GGCTCTTTT	GGAGCCTTTT	1560	
1561	TTTTGGAGA	TTTCAACGT	AAAAAAATTA	TTATTCGAA	TTCCCTTAGT	TGTTCTTTC	1620	
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTAGCAA	AAACCCATAC	AGAAAATTCA	1680	
1681	TTTACTAACG	TCTGGAAAGA	CGACAAAAC	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740	
1741	CTGTGGAATG	CTACAGGCGT	TGTAGTTGT	ACTGGTGACG	AAACTCAGT	TTACGGTACA	1800	
1801	GGGGTTCCCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTG	GGGTGGCGGT	1860	
1861	TCTGAGGGTG	GGCGGTTCTG	GGGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920	
1921	ATTCCGGGCT	ATACTTATAT	CAACCCCTCTC	GACGGCACTT	ATCCGCTGG	TACTGAGCAA	1980	
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040	
2041	CAGAATAATA	GGTCCCGAAA	TAGGCAGGGG	GCATTAAC	TTTATACGGG	CACTGTTACT	2100	
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CACTACACTC	CTGIACTAC	AAAAGCCATG	2160	
2161	TATGACGCTT	ACTGGAACGG	AAAATTCA	GA	ACTGCGCTT	TCCATTCTGG	CTTTAAATGAA	2220
2221	GATCCATTG	TTTGTGAATA	TCAAGGCAA	TGCTCTGACC	TGCCCTCAACC	TCCCTGCAAT	2280	
2281	GCTGGCGGG	GCTCTGGTG	TGGTCTG	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340	
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGG	GGCGGTTCCC	GTGGTGGCTC	TGGTCTGGGT	2400	
2401	GATTTGATT	ATGAAAAGAT	GGCAACCGC	AAATAAGGGG	CTATGACCGA	AAATGCCGAT	2460	
2461	AAAAACGCGC	TACAGCTG	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT	2520	
2521	GCTGCTATCG	ATGGTTCAT	TGGTACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTCTACT	2580	
2581	GGTATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTACACT	2640	
2641	TTAATGAATA	ATTCCGTC	ATATTACCT	TCCCTCCCTC	AATCGGTGA	ATGTCGCCCT	2700	
2701	TTTGTCTTTA	GGCCTGGTAA	ACCATATGAA	TTTCTATTG	ATTGTGACAA	AATAAACTTA	2760	
2761	TTCCGTGGTG	TCTTGGCTT	TCTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTCTACG	2820	
2821	TTTGCTAAC	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTG	GGTATCCGT	2880	
2881	TATTATTGCG	TTTCCCTGGT	TTCCCTCTG	TAACTTGTT	CGGCTATCTG	CTTACTTTT	2940	
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTCATT	GTTCCTTGCT	CTTATTATTG	3000	
3001	GGCTTAAC	AATTCTGTG	GGTTATCTC	CTGATATTAG	CGCTCAATTAA	CCCTCTGACT	3060	
3061	TTGTCAGGG	TGTTCACTT	ATTCTCCCGT	CTAATGCGCT	TCCCCTGTTT	TATGTTATTG	3120	
3121	TCTCTGTA	GGCTGCTATT	TTCATTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTGG	3180	
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTTT	GTAACTGGCA	AATTAGGCTC	TGGAAGACG	3240	
3241	CTCGTTAGCG	TTGGTAAAGT	TTAGGATAAA	ATTGTAGCTG	GGTGC	AAATAGCA	3300	
3301	CTTGATTTAA	GGCTTC	AAAAA CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAC	GCCTCGCGTT	3360	
3361	CTTGAATAC	CGGATAAGCC	TTCTATATCT	GATTGCTTG	CTATTGGCG	CGGTAATGAT	3420	
3421	TCCTACGATG	AAAATAAAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGGCGTAC	TTGGTTAA	3480	
3481	ACCCGTTCTT	GGAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTCT	ACATGCTCGT	3540	
3541	AAATTAGGAT	GGGATATTAT	CTTCCTGTT	CAGGACTTAT	CTATTGTTGA	AAAACAGGCG	3600	
3601	CGTTCTGCA	TAGCTGAACA	TGTTGTTAT	IGTCGTCGTC	TGGACAGAAT	TACTTACCT	3660	
3661	TTTGTGGTAA	CTTATATTC	TCTTATTACT	GGCTCGAAA	TGCCTCTGCC	AAAATTACAT	3720	
3721	TTGGCGTTG	TTAAATATGG	CGATCTCAA	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT	3780	
3781	ACTGGTAAGA	ATTGTATAAA	CGCATATGAT	ACTAAACAGG	CTTTTCTAG	TAATTATGAT	3840	

FIGURE 6-2

3841	TCCGGTGT	TTT ATTCTTAT	TTT AACGCCTT	AT	TTATCACACG	GTCGGTATT	TTT CAAACCA	TTA 3900															
3901	AATTTAGGTC	AGAAGATGAA	ATTAAC	TTAA	ATATATTGA	AAAAGTTTC	TCGC	GGTCTT 3960															
3961	TGTCTTGC	GA TTGGATT	TC	ATCAGC	ATATA	AGT	ACCA	ACCTAACCG 4020															
4021	GAGGTAAAAA	AGGTAGTCTC	TCAGAC	CTAT	GATTTG	ATA	TCAC	TA TGACTCTTCT 4080															
4081	CAGCGTCT	TA ATCTAAGCTA	TCGCTAT	GTT	TC	TAAGG	GGAAA	ATTAATTAAT 4140															
4141	AGCGACGATT	TACAGAAGCA	AGGT	TATTCA	TC	TC	ACATATA	TTGATT	TATG TACTGTTTCC 4200														
4201	ATTA	AAAAG G	TAATCAAA	TGAATTGTT	AA	AT	AT	TTGAT	TTT TCTTGATGTT 4260														
4261	TGTTTCA	TCTTCTTTG	CTCAGG	TAAT	TA	AA	AT	TTG	AAATGAAAT 4320														
4321	TGTA	ACTTGG	TATTCAA	AGC	AT	TTG	TC	CC	CGCTC TGCGCGATT 4380														
4381	TACTGTT	ACT GTATATT	CAT	CTGAC	TTA	AC	CT	AC	TTT TACGCAATT 4440														
4441	TGTTTACG	TGCTAATAATT	TTGAT	ATGGT	TT	GGT	CC	CCATAA	TTCAGAAGTA 4500														
4501	TAATCCAAC	AATCAGGATT	ATATTGATG	TA	AT	GGT	CC	CATCA	TCTGATAATC AGGAATATGA 4560														
4561	TGATAATCC	GCTCCCTCTG	GTGG	TTTCTT	TT	TGTT	CCGCAA	AAATGATAATG	TTACTCAAAC 4620														
4621	TTTTAAATT	AATAACGTC	GGGCA	AAAGGA	TT	TTA	ATACGA	GTTGTCGAAT	TGTTGTAAA 4680														
4681	GTCTAAT	ACT TCTAAATC	CT	CAAATG	TT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT 4740															
4741	TAGTGCAC	CT AAAGAT	TTT	TAGATAAC	TT	TC	CT	TTCTACTG	TTGATTGCC 4800														
4801	AACTGACCAG	ATATTGATTG	AGGG	TTTGT	GT	TTT	GAGGTT	CAGCAAGGT	ATGCTT	TAG 4860													
4861	TTTTCA	TGCTGGCT	CTCAG	CGTGG	CA	CA	CT	GGCGTGT	TA	ACTGACCG 4920													
4921	CCTCAC	CTCT	GT	TTTAT	CTG	TTT	TC	GGCTCG	AT	TTTTAATG	GCGATGTTT 4980												
4981	AGGGCTATCA	GTTC	CGCGCAT	TA	AAAGACTAA	TA	AGC	CATTCA	AA	AAATATTGT	CTGTGCCACG 5040												
5041	TATTCTT	AGC	TTTCAGG	TC	AGAAGG	TT	CT	TCTG	CT	GGCCAGAATG	TCCC	TTTT	TAT 5100										
5101	TA	CTGGT	CGT	GTGACT	GGT	AA	TT	CTG	TT	TGTA	AAATAAAT	CC	ATTT	CCAGA	CGATTGAGCG 5160								
5161	TCAA	AAATG	TG	GGTATT	TCA	TGAGC	GGT	TC	CTG	AA	TTT	TC	CC	GTG	ATGGCTGGCG 5220								
5221	TCTGG	AT	GGT	ATT	ACCAGCA	AGG	CCG	ATAG	TT	GAG	TTT	CT	CT	CT	ACTCAGGAA	GTGATGTTAT 5280							
5281	TA	CTA	ATCAA	AGAAGT	TATTG	CTACA	ACGGT	TA	TT	TA	TT	TC	TT	CG	CGT	GATGGACAGA CTCTTTACT 5340							
5341	CGGT	GGC	CTC	ACTG	TATA	AAAAC	ACTTC	TC	TT	CA	TT	TC	TT	CG	CG	AAAGATCT	GGCGTACCGT	TCCTGTCTAA 5400					
5401	AAT	CCC	TTA	ATCG	GGCTC	CC	TG	TTA	CTG	TC	TT	TC	TT	CG	CG	CCGCTCTGAT	TCCAACGAGG	AAAGCACGTT 5460					
5461	ATAC	GTG	CTC	GTCA	AAAGC	AA	CC	TA	CTG	TC	TT	TC	TT	CG	CG	CGCC	CGGCGCATT	AGGC	GGCGGGCGG 5520				
5521	GTG	TGG	GGT	TAC	GGCC	AGC	GTG	ACCG	CTA	CT	TT	TC	TT	CA	CT	CT	ACTTGC	CGG	CCCTAGCG CCCG	CTCTCCTT 5580			
5581	TCG	TTT	CTT	CC	CTT	CTT	CTG	CC	ACG	CT	TT	TC	TT	CG	CG	CG	CGCCGGCTT	TCCC	CTGCAA GCTCTAAATC 5640				
5641	GGGG	GGC	CCC	TTA	TTA	GGG	GGT	GGT	GGT	CT	TT	TC	TT	CG	CG	CG	CTTACGGCA	CCTCG	CCCC	CCCCATC AAAAAACTTG 5700			
5701	ATTTGG	G	GTG	TAC	GT	GGG	CC	CAT	GGT	CA	TT	TC	TT	CG	CG	CG	CGCC	GTATA	GGG	TTT CGCC	TTTG 5760		
5761	CGT	TGG	AGTC	CA	CG	TTT	TTT	AAT	GTG	AA	TT	TC	TT	CT	CT	CT	CTTGT	TTCA	AA	ACTG	GAACA ACAC	CTCAACC 5820	
5821	CTAT	CT	CCCC	CT	ATT	TTT	GATT	TATA	AG	GG	TTT	GG	TTT	CG	CG	CG	GG	TTT	GG	TTT	GG	CCACCATAA 5880	
5881	ACAGG	ATT	TTT	CG	C	CTG	CTG	GG	CAA	AC	TT	GG	CT	CG	CG	CG	CGT	GG	CT	CT	CG	TGCTGACCG 5940	
5941	CCAGG	CGG	GTG	AAGG	CA	ATC	AGC	TG	TTG	TC	TT	TC	TT	CG	CG	CG	CG	CT	CG	CT	CG	CGCTGACCC 6000	
6001	GGC	GCC	AA	AT	AC	CG	AA	CC	CT	CT	TT	TC	TT	CG	CG	CG	CG	GTG	GG	CT	CG	GGCCGGCC 6060	
6061	ACG	AC	GAG	TT	CCC	GA	TCT	GG	AAAG	GG	TTT	GG	TTT	CG	CG	CG	GTG	GG	CT	CT	CG	GGAGCGCAA CGCAATTAA	GTGAGTTAGC 6120
6121	TC	ACT	CT	ATTA	TTA	GG	CAC	CC	AA	GG	TTT	GG	CTG	CTG	CTG	CTG	TTA	GG	CTG	CTG	CTG	TTATGTTTC GGCTCGTATG TTGTGTGGAA 6180	
6181	TTG	TGAG	GG	AT	AA	ACA	ATTT	CA	AC	AG	TTT	GG	AA	AG	AC	AC	AA	GG	AG	AC	AC	GGAGACAGTC ATAATGAAAT ACCTATTGCC 6240	
6241	TAC	GG	CAG	CC	G	TG	GATT	G	T	T	T	T	T	TG	CC	CC	CC	CC	CC	CC	CC	TGCCCACCA	TGCCCACCA 6300
6301	GAC	CC	CA	G	AG	CT	CC	AA	TT	CC	TT	TC	TT	CG	CG	CG	CG	AG	GT	GT	GT	AGTGTAAATT CTAGAACGCG TAAGCTTGGC 6360	
6361	ACT	GG	CC	GT	TTT	AC	AC	GT	GT	GT	TT	TC	TT	CG	CG	CG	CG	GG	GG	GG	GG	GGTGGACCGC TTGCTGACCG 6420	
6421	CCT	TG	CAG	CA	CA	CCCC	CC	CT	TC	CC	AG	CTG	CTG	CTG	CTG	CTG	CTG	CG	CG	CG	CG	CGCTGACCC 6480	
6481	CC	CT	CCCC	CA	CA	GTG	GC	GA	GC	CT	GA	ATG	GG	CT	CG	CG	CG	CG	ATG	ATG	ATG	CGAATGGCGC TTTGCTGGT TTCCGGCACC 6540	
6541	AGA	GG	CG	GTG	CC	GG	GA	AG	CT	GG	CTG	GG	AG	CT	CG	CG	CG	CG	ATG	CTT	CT	CGGCGCATA CGGCGCGATA CGGTGTCGT 6600	
6601	CCC	CT	CAA	AC	TG	GC	AG	GTG	TT	GG	CT	GG	CT	CG	CG	CG	CG	GG	GG	GG	GG	TGCGCCATC TACACCAACG TAACCTATCC 6660	
6661	CAT	TAC	GG	TC	AAT	CCG	CC	GT	TT	GG	CT	GG	CT	CG	CG	CG	CG	GG	GG	GG	GG	GGAGAATCCG ACGGGTGTT ACTCGCTCAC 6720	
6721	AT	TTA	ATG	TT	G	TG	AA	AG	CT	GG	CT	GG	CT	CG	CG	CG	CG	AG	GG	GG	GG	AGGCCAGACG CGAATTATTT TTGATGGCGT 6780	
6781	TC	CT	TG	GT	TT	AAA	ATG	A	G	CT	GG	AT	TT	CA	CC	CA	AA	GG	CT	CT	CT	CAAAATTAA ACGGCAATTAA TAACAAATA 6840	
6841	TTA	ACG	TTA	CA	AT	TTA	AA	T	TG	AT	TT	GG	TT	GG	CT	CT	CT	GG	CT	CT	CT	GGAGACAGTC TGTGTTGGGG GCTTTTCTGA 6900	
6901	TTA	TCA	AC	CG	GG	GT	AC	AT	AT	G	TT	TC	TT	TC	CG	CG	CG	AT	GG	CT	CT	CTAGTTTAC GATTACCGGT CATCGATTCT 6960	
6961	CTT	GG	TT	TG	CT	CC	AG	AC	CT	TC	AG	GT	AT	GT	CT	CG	CG	CT	GG	CT	CT	CTGATAGCCT TTGATGAGCT CTCAAAATA 7020	
7021	GCT	AC	CC	CT	CC	GG	C	AT	AA	TT	AT	CAG	CT	GG	AT	GG	GT	AA	AC	GG	GT	AGACGGTIG AATATCATA	TGATGGTGAT 7080
7081	TTG	ACT	GT	CT	CC	GG	C	TT	CC	TT	TC	AC	CC	TT	TC	CG	CG	GA	AT	CT	AC	ATTA	CTACACATTA CTCAAGGCTT 7140
7141	GC	AT	TT	AA	AA	TAT	ATG	AG	GG	TT	CT	AA	AA	AT	AT	AT	AT	TT	TT	TT	TT	TTTATGCTCT 7200	
7201	CCC	CG	AA	AA	AG	TAT	TAC	AG	GG	TC	ATA	AT	GT	TT	GG	TA	CA	CC	GG	TT	GG	TTGGTACAA CCGGATTAGC TTTATGCTCT 7260	
7261	GAG	GG	CTT	TAT	TG	CTT	AA	TT	TG	CT	TA	AT	TG	TT	GG	AC	GT	TT	GG	CT	CT	TTGCTTGGCC TGATGATT	TTGGACGTT 7320

| 10 | 20 | 30 | 40 | 50 | 60

FIGURE 7-1

M13IX30

	1	10	1	20	1	30		1	40	1	50	1	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC				ACCTTTTCAG	CTCGGGCCCC	AAATGAAAAT	60			
61	ATAGCTAAC	AGGTATTGCA	CCATTGGCGA				AATGTATCTA	ATGGTCAAC	TAAATCTACT	120			
121	CGTTCGAGA	ATTGGGAATC	AACTGTTACA				TGGAATGAAA	CTTCCAGACA	CCGTACTTTA	180			
181	GTTGCATATT	TAAAACATGT	TGAGCTACAG				CACCAAGATTC	AGCAATTAAAG	CTCTAAGGCC	240			
241	TCTGCAAAAA	TGACCTCTTA	TCAAAAGGAG				CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300			
301	TTGGAGTTG	CTTCCGGCT	GGTCGCTTT				GAAGCTCGAA	TTAAAACCGG	ATATTGAAAG	360			
361	TCTTTCGGGC	TTCCCTTAA	TCTTTTGAT				GCAATCCGCT	TTGCTCTGA	CTATAATAGT	420			
421	CAGGGTAAG	ACCTGATTT	TGATTTATGG				TCATTCTCGT	TTTCTGAAC	GTTAAAGCA	480			
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC				GATTCCGAG	TATTGACGC	TATCCAGTCT	540			
541	AAACATTTA	CTATTACCCC	CTCTGGCAAA				ACTTCTTTG	CAAACGCTC	TCGCTTATTT	600			
601	GGTTTTATC	GTGCTCTGGT	AAACGAGGGT				TATGATAGTG	TTGCTCTAC	TATGCCCTCGT	660			
661	AAATTCTTT	GGCGTTATGT	ATCTGCATTA				GTTGAATGIG	GTATTCTAA	ATCTCAACTG	720			
721	ATGAATCTT	CTACCTGTAA	TAATGTTGTT				CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT	780			
781	TCTTCCCAAC	GTCTGACTG	GTATAATGAG				CCAGTTCTA	AAATGCCATA	AGGTAAATTCA	840			
841	CAATGATTA	AGTTGAAATT	AAACCATCTC				AAGCCAAATT	TACTACTCGT	TCTGGTGT	900			
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG				AGCAGCTTIG	TTACGTGAT	TTGGGTAATG	960			
961	AAATATCCGGT	TCTTGTCAAG	ATTACTCTTG				ATGAAGGTCA	GCCAGCTAT	GCCGCTGGTC	1020			
1021	TGTACACCGT	TCATCTGTCC	TCTTCAAAG				TTGGTCAGTT	CGGTTCCCT	ATGATTGACC	1080			
1081	GTCTGCGCCT	CGTTCCGGCT	AAGTAACATG				GAGCAGGTG	CGGATTTCGA	CACAATTAT	1140			
1141	CAGGCGATGA	TACAAATCTC	CGTGTACTT				TGTTTCGGC	TTGGTATAAT	CGCTGGGGT	1200			
1201	CAAAGATGAG	TGTTTTAGTG	TATTCCTTCG				CCTCTTCTG	TTAGGTGTTG	TGCTCTCGTA	1260			
1261	GTGGCATTAC	GTATTTACC	CGTTAATGG				AAACTTCCTC	ATGAAAAGT	CTTATGCTCT	1320			
1321	CAAAGCCTCT	GTAGCCGTG	CTACCCCTCGT				TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA	1380			
1381	CGATCCCGCA	AAAGCCGCT	TTAACTCCCT				GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440			
1441	TGCGTGGGG	ATGGTGTG	TCATTGTCGG				CGCAACTATC	GGTATCAAGC	TGTTAAGAA	1500			
1501	ATTCACCTCG	AAAGCAAGGT	GATAAAACGA				TACAATTAA	GGCTCCCTTT	GGACCTTTT	1560			
1561	TTTTGGAA	TTTCAACGT	AAAAAATTAA				TTATTCGAA	TTCCCTTGTG	TGTTCTTTC	1620			
1621	TATTCTCACT	CCGCTGAAAC	TGTGAAAGT				TGTTTAGCAA	AACCCCATAC	AGAAAATTCA	1680			
1681	TTTACTAACG	TCTGGAAAGA	CGACAAAACT				TTAGATCGT	ACGCTAACTA	TGAGGGTTGT	1740			
1741	CTGTGGAAATG	CTACAGGCGT	TGTAGTTGT				ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800			
1801	TGGGTTCTA	TTGGGCTTGC	TATCCCTGAA				AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860			
1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT				ACTAAACCTC	CTGACTACGG	TGATACACCT	1920			
1921	ATTCCGGGCT	ATACTTATAT	CAACCCCTCTC				GACGGCACCT	ATCCCGCTGG	TACTGAGCAA	1980			
1981	AAACCCCGCTA	ATCCTAATCC	TTCTCTTGAG				GAGTCCTAGC	CTCTTAAATAC	TTTCATGTTT	2040			
2041	CAGAATAATA	GGTTCCGAAA	TAGGCAGGGG				GCATTAACCTG	TTTATACGGG	CACTGTTACT	2100			
2101	CAAGGCAC	ACCCCGTTAA	AACTTATTAC				CACTACACTC	CTGTATCATC	AAAAGCCATG	2160			
2161	TATGACGCTT	ACTGGAAACG	TAATTCTAGA				GACTGCGCTT	TCCATTCTGG	CTTTATGAA	2220			
2221	GATCCATTG	TTTGTGAATA	TCAAGGCCAA				TCGTCTGACC	TGCCCTAAC	TCCGTCAAT	2280			
2281	GCTGGCGGG	GCTCTGGTGG	TGGTCTGCTG				GGCGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340			
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGG				GGCGGTTCCG	GTGGTGGCTC	TGGTCCGGT	2400			
2401	GATTTGATT	ATGAAAAGAT	GGCAAAACGCT				AAATAAGGGG	CTATGACCGA	AAATGCCGAT	2460			
2461	AAAAACGCC	TACAGTCTGA	CGCTAAAGGC				AAACTTGATT	CTGTCCTAC	TGATTACGGT	2520			
2521	GCTGCTATCG	ATGGTTTCA	TGGTGACGT				TCCGGCTCTG	CTAATGGTAA	TGGTCTACT	2580			
2581	GGTGATTTC	CTGGCTCTAA	TTCCCAAATG				GCTCAAGTCG	GTGACCGTGA	TAATTACACCT	2640			
2641	TTAATGAATA	ATTTCCGTC	ATATTCTACCT				TCCCTCCCTC	AAATGGTGA	ATGTCGCCCT	2700			
2701	TTTGTCTTA	GCGCTGGTAA	ACCATATGAA				TTTCTATG	ATTGTGACAA	AAATAACTTA	2760			
2761	TTCCGTGGT	TCTTGCCTT	TCTTTATAT				GTCGCCACT	TTATGTATGT	ATTTCTACG	2820			
2821	TTTGCTAAC	TACTCGTAA	TAAGGAGTCT				TAATCATGCC	AGTTCTTTC	GGTATTCGGT	2880			
2881	TATTATTGCG	TTTCTCGGT	TTCTCTCTGG				TAACCTTGT	CGGCTATCTG	CTTACTTTTC	2940			
2941	TTAAAAAGGG	CTTCGGTAA	ATAGCTATTG				CTATTCATT	GTTCCTGCT	CTTATTATTG	3000			
3001	GGCTTAAC	AATTCTGTC	GGTTATCTCT				CTGATATTAG	CGCTCAATTAA	CCCTCTGACT	3060			
3061	TTGTCAGGG	TGTTCACTTA	ATTCCTCCGT				CTAATGCCG	TCCCCTTTT	TATGTTATT	3120			
3121	TCTCTGAAA	GGCTGCTATT	TCATTTTG				ACGTAAACA	AAAAATCGT	TCTTATTG	3180			
3181	ATGGGATAA	ATAATATGGC	TGTTTATTT				GTAACCTGCA	AAATTAGCTC	TGGAAAGACG	3240			
3241	CTCGTTAGCG	TTGGTAAAGAT	TCAGGATAAA				ATTGTTAGCTG	GGTGCATAAT	AGCAACTAAT	3300			
3301	CTTGATTTAA	GGCTTCAAAA	CTCTCCCGCAA				GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT	3360			
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT				GATTTGCTG	CTATTGGCG	CGGTATATGAT	3420			
3421	TCCTACGATG	AAAATAAAAA	CGGCTTGCTT				GTTCTCGATG	AGTGGCGTAC	TTGGTTAAT	3480			
3481	ACCCGTTCTT	GGATGATAA	GGAAAGACAG				CCGATTATG	ATGGTTTCT	ACATGCTCGT	3540			
3541	AAATTAGGAT	GGGATATTAT	TTTCTTGTG				CAGGACTTAT	CTATTGTTGA	TAACACGGCG	3600			
3601	CGTTCTGCAT	TAGCTGAACA	TGTGTTTAT				TGTCGTCGTC	TGGACAGAA	TACTTTACCT	3660			
3661	TTTGTGGT	CTTTATATT	TCTTATTACT				GGCTCGAAA	TGCCTCTGCC	TAATTACAT	3720			
3721	TTTGGCTTG	TTAAATATGG	CGATTCTCAA				TTAAGCCCTA	CTGTGAGCG	TTGGCTTTAT	3780			
3781	ACTGGTAAGA	ATTGTATAA	CGCATATGAT				ACTAACAGG	CTTTTCTAG	TAATTATGAT	3840			

FIGURE 7-2

Inventor: William D. Huse
Docket No.: P-IX 4526

3841 TCCGGTGT TT ATTCTTATT AACGCCTAT
 3901 AATTAGTC AGAAGATGAA CCTTACTAAA
 3961 TGTCTGCGA TTGGATTGTC ATCAGCATTT
 4021 GAGGTTAAAA AGGTAGTCTC TCAGACCTAT
 4081 CAGCGTCCTA ATCTAAGCTA TCGCTATGTT
 4141 AGCGACGATT TACAGAAGCA AGGTTATTCA
 4201 A'TTAAAAAAAG GTAATTCAA TGAAATTGTT
 4261 TGTTTCATCA TCTTCTTTG CTCAGGTAAT
 4321 TGAACTTGG TATTCAAAGC AACAGGGCA
 4381 TACTGTTACT GTATATTCT CTGACGTTAA
 4441 TGTTTACGT GCTAATAATT TTGATATGTT
 4501 TAATCCAAC AACAGGATT ATATTGATGA
 4561 TGATAATTCC GCTCCCTCG CTGTTTCTT
 4621 TTTAAATT AATAACGTT GGCAAAAGGA
 4681 GTCTAATACT TCTAAATCTT CAAATGTATT
 4741 TAGTGCACCT AAAGATATT TAGATAACCT
 4801 AACTGACCAG ATATTGATT AGGGTTTGAT
 4861 TTTTCATTT GCTGCTGGT CTAGCGTGG
 4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGG
 4981 AGGGCTATCA GTTCGCGCAT TAAAGACTAA
 5041 TATTCTTAGC CTTTCAGTC AGAAGGGTC
 5101 TACTGGTCGT GTGACTGGTG AATCTGCCAA
 5161 TCAAAATGTA GGTATTCCA TGAGCGTTTT
 5221 TCTGGATATT ACCAGCAAGG CGCAGTAGTT
 5281 TACTAATCAA AGAAGTATTG CTACAACGGT
 5341 CGGTGGCCCTC ACTGATTATA AAAACACTTC
 5401 AATCCCTTTA ATCGGCCCTCC TGTTTAGCTC
 5461 ATACGTGCTC GTCAAAGCAA CCATAGTAGC
 5521 GTGTGGTGGT TACGCGCAGC GTGACCGTA
 5581 TCGCTTCTT CCCTTCCCTT CTGCCACGT
 5641 GGGGGCTCCC TTAGGGTTC CGATTTAGTG
 5701 ATTTGGGTGA TGTTTCACGT AGTGGGCAT
 5761 CGTTGGAGTC CACGTTCTTT AATAGTGGAC
 5821 CTATCTCGGG CTATTCTTT GATTATAAG
 5881 ACAGGATTTC CGCTCTGG GGCAAACACAG
 5941 CCAGGCGGTG AAGGGCACT AGCTGTTGCC
 6001 GGCGCCCAAT ACGCAAACCG CCTCTCCCCG
 6061 ACGACAGGT TCCCAGCTGG AAAGCGGGCA
 6121 TCACTATTAA GGCACCCAG GCTTACACT
 6181 TTGTGAGCGG ATAACAATT CACACGGTC
 6241 GTGACTGGGA AAACCTGGC GTTACCCAAG
 6301 AAGCACTATT GCACTGGCAC TCTTACCGTT
 6361 CGCCCAGGTC CAGCTGCTCG AGTCAGGCC
 6421 CTAGGCTGAA GGCGATGACC CTGCTAAGGC
 6481 TGAGTACATT GGCTACGTT GGGTATGGT
 6541 TAAATTATTC AAAAGTTA CGAGCAAGGC
 6601 GATGCCCTT CCCAACACTT GCGAGCCTG
 6661 GCACCAGAAG CGGTGCCGA AAGCTGGCTG
 6721 GTCGCCCCCT CAAACTGGCA GATGCACGGT
 6781 TATCCCATTA CGGTCAATCC GCGTTGTT
 6841 CTCACATTAA ATGTTGATGA AAGCTGGCTA
 6901 GGCCTTCTTA TTGGTAAAAA AATGAGCTGA
 6961 AAATATTAAC GTTTACATT TAAATATTG
 7021 TCTGATTATC AACCGGGTA CATATGATTG
 7081 ATTCTCTTGT TTGCTCCAGA CTCTCAGGCA
 7141 AAATAGCTAC CCTCTCCGGC ATTAATTAT
 7201 GTGATTGAC TGTCTCCGGC CTTTCTCACCC
 7261 GCATTGGCATT TAAATATAT GAGGGTTCTA
 7321 CTTCTCCCCG AAAAGTATA CAGGGTCATA
 7381 GCTCTGAGGC TTATTGCTT AATTTGCTA
 7441 ACGTT

| 10 | 20 | 30 | 40 | 50 | 60

7445

FIGURE 8-1

ed03 ->

	10	20	30	40	50	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTCA	CTCGCGCCCC	AAATGAAAAT
61	ATAGCTAAC	AGGTATTG	CCATTGCGA	AATGTATCTA	ATGGTCAAAC	TAATCTACT
121	CGTCGCCAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA
181	GTTGCATATT	AAAAACATGT	TGAGCTACAG	CACCAAGATT	AGCAATTAAG	CTCTAAGCCA
241	TCTGCAAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCTTGACCTG
301	TTGGAGTTG	CTTCGGTCT	GGTCGCTT	GAAGCTCGAA	TTAAACAGCG	ATATTTGAAG
361	TCTTCGGGC	TTCTCTTAA	TCTTTTGAT	GCAATCCGCT	TTGCTCTGA	CTATAATAGT
421	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTCTGAACT	GTAAAGCA
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCCGAG	TATTGGACGC	TATCCAGTCT
541	AAACATTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTG	CAAAGCCTC	TCGCTATTTT
601	GGTTTTATC	GTGCTCGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT
661	AATTCCCTTT	GGCGTTATGT	ATCTGCATTA	TATGAATGTG	GTATTCTAA	ATCTCAACTG
721	ATGAATCTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTC	TTTTTATTAA	CGTAGATTTT
781	TCTTCCCAAC	GTCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA
841	CAATGATTA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGT
901	CTCGTCAAGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTG	TTACGTTGAT	TTGGGTAATG
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTC	GCCAGCCTAT	GGCCCTGGTC
1021	TGTACACCGT	TCATCTGTCC	TCTTCAAAG	TTGGTCAGT	CGGTTCCCTT	ATGATTGACC
1081	GTCTGCCCT	CGTTCGGCT	AAAGAACATG	GAGCAGGTG	CGGATTCGA	CACAATTAT
1141	CAGGCGATGA	TACAATCTC	CGTTGACTT	TGTTAGCAA	TTGGTATAAT	CGCTGGGGT
1201	CAAAGATGAG	TGTTTAGTG	TATTCTTCG	CCTCTTCG	TTTAGGTTGG	TGCCCTCGT
1261	GTGGCATTAC	GTATTTACC	CGTTTAATGG	AAACCTCCTC	ATGAAAAAGT	CTTAGTCCT
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCCTCGT	TCGGATGCTG	TCTTCGCTG	CTGAGGGTGA
1381	CGATCCCGCA	AAAGCGGCCT	TAAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAA	GGCTCCTTTT	GGAGCCTTTT
1561	TTTTGGAGA	TTTCAACGT	AAAAAAATTA	TTATTCGAA	TTCCCTTAGT	TGTCCTTT
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTAGCAA	AAACCCATAC	AGAAAATTCA
1681	TTTACTAACG	TCTGGAAAGA	CGACAAAAC	TTAGATCGTT	ACGCTAACTA	TGAGGGTTG
1741	CTGTGGAATG	CTACAGCGT	TGAGTTTG	ACTGGTGACG	AAACTCACTG	TTACGGTACA
1801	TGGGTTCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGTG	GTGGCTCTGA	GGGTGGCGGT
1861	TCTGAGGGTG	CGGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGACTACGG	TGATACACCT
1921	ATTCGGGCT	ATACCTATAT	CAACCCCTCTC	GACGGCACTT	ATCCCTCTGG	TACTGAGCAA
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAAAC	TTTCATGTTT
2041	CAGAATAATA	GGTCCGAAA	TAGGCAGGGG	GCATTAAC	TTTATACGGG	CACTGTTACT
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CACTACATC	CTGTATCATC	AAAAGCCATG
2161	TATGACGCTT	ACTGGAACGG	TAATTCA	GACTGCGCTT	TCCATTCTGG	CTTAAATGAA
2221	GATCCATTG	TTTGTAATA	TCAAGGCCAA	TGTCCTGACC	TGCCCTCAACC	TCCTGTCAT
2281	GCTGGCGCG	GCTCTGGTGG	TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT
2341	GGCGGTCTG	AGGGTGGCGG	CTCTGAGGGG	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT
2401	GATTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT
2461	GAAAACGCCG	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT
2521	GCTGCTATCG	ATGGTTCAT	TGGTACGTT	TCGGGCCCTG	CTAATGGTAA	TGGTGC
2581	GGTGATTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTACACCT
2641	TTAATGAATA	ATTTCCGTCA	ATATTTACCT	TCCTCTCCCT	AATCGGTGA	ATGTCGCCCT
2701	TTTGCTTTA	GGCCTGGTAA	ACCATATGAA	TTTCTATG	ATTGTGACAA	AATAAACTTA
2761	TTCCGTGGTG	TCTTGTGTT	TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTCTACG
2821	TTTGCTAAC	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTG	GGTATTCCGT
2881	TATTATGCG	TTCTCTCGGT	TTCTCTCTGG	TAACCTTGTT	CGGCTATCTG	CTTACTTTTC
2941	TTAAAAAGG	CTTCGGTAAAG	ATAGCTATTG	CTATTCATT	TTTCTCTGCT	CTTATTATTG
3001	GGCTTAATC	AATTCTTGTG	GGTTATCTCT	CTGATATAG	CCCTCAATT	CCCTCTGACT
3061	TTGTCAGGG	TGTCAGTTA	ATCTCCCGT	CTAATGCGCT	CCCCCTGTTT	TATGTTATTC
3121	TCTCTGTAA	GGCTGCTATT	TTCATTTTGT	ACGTTAAACA	AAAATCGTT	TCTTATTG
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTTT	GTAACTGGCA	AATTAGGCTC	TGAAAGACG
3241	CTCGTTAGG	TGTTGAAGT	TtAGGATAAA	ATTGTACGT	GGTGC	AAAAT AGCAACTAAT
3301	CTTGATTAA	GGCTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTGCTTG	CTATTGGCG	CGGTAATGAT
3421	TCCTACCGATG	AAAATAAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGC	GGTAC TTGTTAAT
3481	ACCCGTTCTT	GGAAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTCT	ACATGCTCGT
3541	AAATTAGGAT	GGGATATTAT	TTTCTCTGTT	CAGGACTTAT	CTATTGTTGA	AAACAGGCG
3601	CGTCTGCAT	TAGCTGAACA	TGTTGTTAT	TGTCGTCGTC	TGGACAGAA	TACTTTACCT

FIGURE 8-2

3841	TCCGGTGT	TT ATTCTTATT	AA CGCCTTAT	TT ATCACACG	GTCGGTAT	TT CAAACCATT	A 3900
3901	AATTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTGA	AAAAGTTTC	ACCGCGTCTT	A 3960
3961	TGTCTGC	GA TTGGATT	TGC ATCAGCATTT	ACATATAGT	TT ATATAACCC	ACCTAACGCCG	A 4020
4021	GAGGTAAAAA	AGGTAGTCTC	TCA GACCTAT	GATTTGATA	AATTCACTAT	TGACTCTTCT	A 4080
4081	CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAAT	A 4140
4141	AGCGACGATT	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTTATG	TACTGTTTCC	A 4200
4201	ATTAAGGAG	GTAATTCAA	TGAAATTGTT	AAATGTAATT	AATTGTTT	TCTTGATGTT	A 4260
4261	TGTTTACATCA	TCTCTTTTG	CTCAGGTAAT	TGAAATGAA	AATTGCGCTC	TGCGCGATT	A 4320
4321	TGTAACCTGG	TATC ACAAAGC	AATCAGGCCA	ATCCGTTATT	GTTTCTCCC	ATG TAAAAGG	A 4380
4381	TACTGTTACT	GTATATTCA	CTGACGTTAA	ACCTGAAAAT	CTACCGAATT	TCTTTATTTC	A 4440
4441	TGTTTACGT	GCTAATAATT	TTGATATGTT	TGGTTCAATT	CCTTCATAA	TTCAGAAGTA	A 4500
4501	TAATCCA AAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA	A 4560
4561	TGATAATTCC	GCTCCTTCTG	GTGGTTTCTT	TGTTCCCAA	AATGATAATG	TTACTCAAAC	A 4620
4621	TTTTAAAATT	AATAACGTT	GGGCAAAGGA	TTTAATACGA	GTTGCGAAT	TGTTTGAAA	A 4680
4681	GTCTAACT	TCTAAATCT	CAAATGTATT	ATCTATTGAC	GGCTCTAATC	TATTAGTTG	A 4740
4741	TAGTGCACCT	AAAGATATT	TAGATAACCT	TCCTCAATT	CTTTCTACTG	TTGATTTGCC	A 4800
4801	AACTGACCAG	ATATTGATTG	AGGGTTTGAT	ATTGAGGTT	CAGCAAGGTG	ATGCTTTAGA	A 4860
4861	TTTTTCA	TTT GCTGCTGGCT	CTCAGCGTGG	CACTGTTGCA	GGCGGTGTTA	ATACTGACCG	A 4920
4921	CCTCACCTCT	GTTTTATCTT	CTGCTGGTGG	TTCGTTCGGT	ATTTTAATG	GCGATGTTT	A 4980
4981	AGGGCTATCA	GTTCGCGCAT	TAAGACTAA	TAGCCATTCA	AAAATATTGT	CTGTGCCACG	A 5040
5041	TATTCTTACG	CTTCAGGTC	AGAAGGGTTC	TATCTCTTT	GGCCAGAATG	TCCCTTTTAT	A 5100
5101	TACTGGTCTG	GTGACTGGTG	ATATCGCCAA	TGTAATAAT	CCATTTCAGA	CGATTGAGCG	A 5160
5161	TCAAAATGTA	GGTATTTC	CA TGAGCGTTT	TCCCTGTCGA	ATGGCTGGCG	GTAATATTGT	A 5220
5221	TCTGGTATT	ACCAAGCAAGG	CCGATAGTTT	GAGTTCTCT	ACTCAGGCAA	GTGATGTTAT	A 5280
5281	TACTAATCAA	AGAAGTATTG	CTACAACGGT	TAATTGCGT	GATGACAGA	CTCTTTTACT	A 5340
5341	CGGTGGCCTC	ACTGATTATA	AAAACACTTC	TCAAGATTCT	GGCGTACCGT	TCCCTGCTAA	A 5400
5401	AATCCCTTA	ATCGGCCTCC	TGTTTAGCTC	CCGCTCTGAT	TCCAAGGAGG	AAAGCACGTT	A 5460
5461	ATACGTGCTC	GTCAAAGCA	CCATAGTACG	CGGCTGTAG	CGGGCATTAA	AGCGCGGCGG	A 5520
5521	GTGTGGTGGT	TACCGCGCAGC	GTGACCGCTA	CACTGCCAG	CGCCCTAGCG	CCCGCTCCTT	A 5580
5581	TCGTTCTT	CCCTTCCTT	CTCGCCACGT	TCGCCGGCTT	TCCCCGCTAA	GCTCTAAATC	A 5640
5641	GGGGGCTCCC	TTAGGGTTC	CGATTTAGTG	CTTACGGCA	CCTCGACCCC	AAAAAACTTG	A 5700
5701	ATTGGGTGA	TGGTTCACGT	AGTGGGCCAT	CGCCCTGATA	GACGGTTTT	CGCCCTTTGA	A 5760
5761	CGTTGGAGTC	CACGTTCTTT	AAATGTTGAC	TCTTGTCTCA	AACTGGAACA	ACACTCAACC	A 5820
5821	CTATCTCGGG	CTATTCTTT	GATTTATAAG	GGATTTGCC	GATTTCGGAA	CCACCATCAA	A 5880
5881	ACAGGATT	TT CGCCTGCTGG	GGCAAACCGA	CGTGGACCGC	TTGCTGCAAC	TCTCTCAGGG	A 5940
5941	CCAGGGGTG	AAGGGCAATC	AGCTGTTGCC	CGTCTGCTG	GTGAAAAGAA	AAACCACCT	A 6000
6001	GGCGCCAAT	ACGCAAACCG	CCTCTCCCCG	CGCCTTGCC	GATTCA	TGAGCTGGC	A 6060
6061	ACGCAAGCTT	TCCCGACTGG	AAAGCGGGCA	GTGACCGCAA	CGCAATTAAAT	GTGAGTTAGC	A 6120
6121	TCACTCATT	GGCACCCCG	GCTTTACACT	TTATGCTTCC	GGCTCTGAT	TTGTGTGGAA	A 6180
6181	TTGTGACGG	ATAACAAATT	CACACGGCTC	ACTTGGCACT	GGCCGTCGTT	TTACAACGTC	A 6240
6241	GTGACTGGG	AAACCCCTGGC	GTACCCAAAG	CTTGTACAT	GGAGAAAATA	AA GTGAAACAA	A 6300
6301	AAGCACTATT	GCAC TGGCAC	TCTTACCGTT	ACTGTTAAC	CCTGTGCGAA	AA GCCTATGG	A 6360
6361	GGGGTTCATG	CTCTGAGGC	ATCCGGGAGC	TGAAGGGCAT	GACCTGCTA	AGGCTGCATT	A 6420
6421	CAATAGTTA	CAGGCAAGTG	CTACTGAGTA	CATTGGCTAC	GCTTGGCTA	TGGTAGTAGT	A 6480
6481	TATAGTTGGT	GCTACCATAG	GGATTAATT	ATC AAAAAG	TTTACGGAGCA	AGGCTTCCTA	A 6540
6541	AGCAATAGCG	AAGAGGCCCG	CACCGATGCC	CCTTCCCAC	AGTTGCGCAG	CCTGAATGGC	A 6600
6601	GAATGGCGCT	TTGGCTGGTT	TCCGGCACCA	GAAGCGGTG	CGGAAAGCTG	GCTGGACTGC	A 6660
6661	GATCTCTG	AGGGCGATAC	GGTCGTCGTC	CCCTCAAAC	GGCAGATGCA	CGGTTACGAT	A 6720
6721	GCGCCCATCT	ACACCAACGT	AACCTATCCC	ATTACGGTCA	ATCCGCCGTT	TGTTCCCACG	A 6780
6781	GAGAATCCGA	CGGGTTGTTA	CTCGCTCACA	TTTAATGTTG	ATGAAAGCTG	GCTACAGGA	A 6840
6841	GGCCAGACGC	GAATTATTT	TGATGGCGTT	CCTATTGGTT	AAAAAATGAG	CTGATTTAAC	A 6900
6901	AAAAATTAA	CGCGAATT	TTTACAAAAT	TAACGTTAC	AATTAAATA	TTTGCTTATA	A 6960
6961	CAATCTCCT	GTTTTGGGG	CTTTCTGAT	TATCAACCGG	GGTACATATG	ATTGACATGC	A 7020
7021	TAGTTTACG	ATTACCGTTC	ATCGATTCTC	TTGTTGCTC	CAGACTCTCA	GGCAATGACC	A 7080
7081	TGATAGCCTT	TGAGATCTC	TCAAAATAG	CTACCTCTC	CGGCATTAAAT	TTATCAGCTA	A 7140
7141	GAACGGTGA	ATATCATATT	GATGGTATTG	TGACTGTC	CGGCCTTCT	CACCCCTTTG	A 7200
7201	AATCTTAC	TACACATTAC	TCAGGCATTG	CATTAAAAT	ATATGAGGGT	TCTAAAATT	A 7260
7261	TTTATCCTG	CGTTGAAATA	AAGGCTTCTC	CCGCAAAGT	ATTACAGGGT	CATAATGTTT	A 7320
7321	TTGGTACAAC	CGATTAGCT	TTATGCTG	AGGCTTATT	GCTTATTT	GCTAATTCTT	A 7380
7381	TGCCTTGCT	GTATGATT	TTGGACGTT				7409

| 10 | 20 | 30 | 40 | 50 | 60

FIGURE 9-1

M13IX421

	10	20	30	40	50	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTCA	CTCGCGCCCC	AAATGAAAAT
61	ATAGCTAAC	AGGTTATTGA	CCATTGCGA	AATGTATCTA	ATGGTC	AAAC TAAATCTACT
121	CGTTCCAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCAGAC	CCGTACTTTA
181	GTTGCATATT	AAAAACATGT	TGAGCTACAG	CACCA	GATTC	AGCAATTAAG
241	TCTGCAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAA	AGG	TACTCTCAA
301	TTGGAGTTG	CTTCCGGTCT	GGTCGCTTT	GAAGCTCGA	TTAAAACGCG	ATATTTGAAG
361	TCTTCGGC	TTCTCTTAA	TCTTTTGAT	GAATCCGCT	TTGCTCTGA	CTATAATAGT
421	CAGGGTAAAG	ACCTGATTT	TGATTTATGG	TCATTCTCGT	TTCTGA	ACT GTTTAAAGCA
481	TTTGAGGGGG	ATTCATGAA	TATTTATGAC	GATCCGCAG	TATTGGACGC	TATCCAGTCT
541	AAACATTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTG	CAAAGCCTC	TCGCTATTTT
601	GGTTTTATC	GTGCTCTGGT	AAACGAGGGT	TATGATAGT	TTGCTCTTAC	TATGCCCTCGT
661	AATTCC	GGCGTTATGT	ATCTGCATTA	GTTGAATGT	GTATTCTAA	ATCTCAACTG
721	ATGAATTTT	CTACCTGTAA	TAATGTTGT	CCGTTAGTC	GTTTATTAA	CGTAGATTT
781	TCTTCCAAC	GTCTGACTG	GTATAATGAG	CCAGTTCTA	AAATCGCAT	AGGTAATTCA
841	CAATGATTA	AGTGAAATT	AAACCATCTC	AAGCCAA	TACTACTCGT	TCTGGTGT
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	ACAGCTTTG	TTACGTTGAT	TTGGGTAATG
961	AATATCGGT	TCTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GGCCTGGTC
1021	TGTACACCGT	TCATCTGTCC	TCTTCAAAG	TTGGTCAGTT	CGGTC	CCCTT ATGATTGACC
1081	GTCTGCCCT	CGTCCGGCT	AAAGTAACATG	GAGCAGGTG	CGGATTTCGA	CACAATTAT
1141	CAGGGCATGA	TACAAATCTC	CGTTGACTT	TGTTCCG	TTGGTATAAT	CGCTGGGGT
1201	CAAAGATGAG	TGTTTAGTG	TATTCTTCG	CCTCTTCG	TTAGGTTGG	TGCCTTCGTA
1261	GTGGCATTAC	GTATTTACC	CGTTAATGG	AAACTCC	CTC	ATGAAAAAGT
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCCTCGT	TCCGATGCTG	TCTTCGCTG	CTGAGGGTGA
1381	CGATCCC	AAAGCGGCCT	TTAAC	GCAAGCCTCA	GGCACCGAAT	ATATCGTTA
1441	TGCGTGGCG	ATGGTTGTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTAAGAA
1501	ATTCA	CCCTCG	AAAGCAAGCT	TACAAT	AACTCCTTT	GGAGCCTTT
1561	TTTTGGAGA	TTTCAACGT	AAAAAAATTA	TTATTGCAA	TTCCCTT	TGTTCTTTC
1621	TATTCTCA	CCGCTGAAAC	TGTTGAAAGT	TGTTAGCAA	AAACCCATAC	AGAAAATTCA
1681	TTTACTAACG	TCTGGAAAGA	CGACAAA	TTAGATCGT	ACGCTAACTA	TGAGGGTTG
1741	CTGTGGATG	CTACAGCGT	TGTAGTTGT	ACTGGTGAC	AAACTCAGTG	TTACGGTACA
1801	TGGGTTCTA	TTGGGCTTG	TATCCCTGAA	AATGAGGTG	GTGGCTCTGA	GGGTGGCGGT
1861	TCTGAGGGTG	GGGTTCTGA	GGGTGGCGGT	ACTAACCTC	CTGAGTACGG	TGATACACCT
1921	ATTCCGGCT	ATACTTATAT	CAACCCCTCTC	GACGGCACTT	ATCCGCTGG	TACTGAGCAA
1981	AAACCCGCTA	ATCTTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTT
2041	CAGAATAATA	GGTCCGAA	TAGGCAGGGG	GCATTA	ACTGTTACT	2100
2101	CAAGGCACTG	ACCCCGTAA	AACTTATTAC	CACTAC	CTGTATCATC	2160
2161	TATGACGCTT	ACTGGAACGG	TAATTCA	GA	TCTGCGCTT	2220
2221	GATCCATTG	TTTGTGAATA	TCAAGGCCAA	TCG	TGACC	TCCTCAACC
2281	GCTGGCGCG	GCTCTGGTGG	TGGTCTGGT	GGCGC	CTG	AGGGTGGTGG
2341	GGCGGTCTG	AGGGTGGCG	CTCTGAGGGA	GGCGT	CCG	TGGTGGCTC
2401	GATTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGG	CTATGACCGA	AAATGCCGAT
2461	AAAACGCGC	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT
2521	GCTGCTATCG	ATGGTTCAT	TGGTGACGT	TCCGGC	CTTG	CTAATGGTAA
2581	GGTGATT	CTGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCA
2641	TAAATGATA	ATTCCGTC	ATATTTACCT	TCCCTCC	CTC	AATCGGTGA
2701	TTTGCTTTA	GGCGTGGTAA	ACCATATGAA	TTTCTATTG	ATTG	TGACAA
2761	TTCCGGTGTG	TCTTGGT	TCTTTATAT	GTG	CCACCT	TTATGATGT
2821	TTGCTAAC	TACTGCGTAA	TAAGGAGTCT	TAATCATG	GC	TTTCTTGTG
2881	TATTATTGCG	TTTCCTCGGT	TTCTTCTGG	TAAC	TTGTT	CGGCTATCTG
2941	TTAAAAAGGG	CTTCGGTAA	ATAGCTATTG	CTATT	TC	TTGCT
3001	GGCTTA	AATTCTTG	GGTTATCTCT	GTGATT	CGCTCA	ATTA CCCCTGACT
3061	TTGTCAGGG	TGTCAGTTA	ATTCTCCG	CTAAT	GGC	TCCCTGTTT
3121	TCTCTG	AAA	GGCTGCTATT	TTCAT	CTC	TATGTTATTC
3181	ATTGGGATAA	ATAATATGCC	TGTTTATTT	ACGTTAA	AC	AAAATCGTT
3241	CTCGTTAGCG	TTG	TAAGAT	GTA	ACTGG	AAATTAGGCTC
3301	CTTGAT	TTAA	GGCTCAAA	GG	GG	GGAGGT
3361	CTT	AGAATAC	CGGATAAGCC	T	T	TCGCTAAAAC
3421	TCCTACGATG	AAA	AAAA	G	T	GGCTCGT
3481	ACCCGTTCTT	GGA	GGAAAGACAG	G	T	AGTGGGTAC
3541	AAATTAGGAT	GGG	GGATATTAT	CAGGACTT	T	TTGTTAAT
3601	CGTTCTGCAT	TAG	CTGGA	GGACAGAAT	T	TGTCGTC

FIGURE 9-2

3841 TCCGGTGT	TT ATTCTTAT	TTT AACGCCTT	AT	TTATCACACG	GTCGGTATT	TT CAAACCATT	TA	3900
3901 AATTAGGTC	AGAAGATGAA	GCTTACTAAA		ATATATTGA	AAAAGTTTC	ACCGGTTCTT		3960
3961 TGTCGGCA	TTGGATTTC	GC ATCAGCAT	TT	ACATATA	GT	ATATAACCCA	ACCTAACCG	4020
4021 GAGGTTAAA	ACGTAGTCTC	TCA GACCTAT		GATTTGATA	AATT	CACTAT	TGACTCTTCT	4080
4081 CAGCGCTT	TA CTAAAGCTA	TCGCTATGTT		TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT		4140
4141 AGCGACGATT	TACAGAAGCA	AGGTATTCTA		CTCACATATA	TTGATTATG	TACTGTTCC		4200
4201 ATTAAGG	TAATCAAAT	GAATGTTA		AATGTAATT	ATTTGTTT	CTTGATGTT		4260
4261 GTTTCATCAT	CTTCTTTGC	TCAGGTAATT		GAATGAATA	ATTGCCCTCT	GCGCGATTT		4320
4321 GTAAC	TT ATTCAAGCA	ATCAGCGAA		TCCGTTATTG	TTTCTCCC	TGA AAAAGGT		4380
4381 ACTGTTACTG	TATATTCTC	TGACGTTAAA		CCTGAAAATC	TACGCAATT	TTTATTCT		4440
4441 GTTTACGTG	CTAATAATT	TGATATGGTT		GGTCATTC	CTTC	CATTAT	TTAGAAGTAT	4500
4501 AATCCAAACA	ATCAGGATTA	TATTGATGAA		TTGCCATCAT	CTGATAATCA	GGAATATGAT		4560
4561 GATAATCCG	CTCCCTCTGG	TGGTTCTT		GTTCCGAAA	ATGATAATGT	TACTCAA	ACT	4620
4621 TTAAAGG	ATAACGTTCG	GGCAAAGGAT		TTAATACCGAG	TTGTCGA	ATT GTTGTAAAG		4680
4681 TCTAATCT	CTAAATCCTC	AAATGTATT		TCTATTGACG	GCTCTAATCT	ATTAGTTGTT		4740
4741 AGTGCACCTA	AAGATATT	AGATAACCTT		CCTCAATT	TTCTACTGT	TGATTTGCCA		4800
4801 ACTGAC	AGAGG	TATTGATGA		TTTGGAGGTC	AGCAAGGTGA	TGCTTTAGAT		4860
4861 TTTCATTTG	CTGCTGGCTC	TCAGCGTGGC		ACTGTTGACG	GCGGTGTTA	TACTGACCGC		4920
4921 CTCACCTCTG	TTTATCTTC	TGCTGGTGGT		TCGTCGGA	TTTTAATGG	CGATGTTTTA		4980
4981 GGGCTATCAG	TTCGCGCATT	AAAGACTAAT		AGCCATTAA	AAATATTGTC	TGTGCCACGT		5040
5041 ATTCTTACGC	TTCAAGGTCA	GAAGGTTCT		ATCTCTGTTG	GCCAGAATGT	CCCTTTTATT		5100
5101 ACTGGTCGTG	TGACTGGTGA	ATCTGCCAAT		GTAATAATC	CATTTCAGAC	GATTGAGCGT		5160
5161 CAAAATGTA	GTATTC	CAT GCGTTTT		CCTGTCGA	TGGCTGGCG	TAATATTGTT		5220
5221 CTGGATATT	CCAGCAAGGC	CGATAGTTG		AGTTCTCTA	CTCAGGCAAG	TGATGTTATT		5280
5281 ACTAATCAA	GAAGTATTGC	TACAACGGTT		AATTGCGTG	ATGGACAGAC	TCTTTACTC		5340
5341 GGTGGCCTCA	CTGATTATAA	AAACACTTCT		CAAGATTCTG	GCGTACCGT	CCTGTCTAAA		5400
5401 ATCCCTTAA	TCGGCCTCCT	GTAGGCTCC		CGCTCTGATT	CCAACGAGGA	AAGCACGTTA		5460
5461 TACGTGCTCG	TCAAAGCAAC	CATAGTACGC		GCCCTGTAGC	GGCGCATTAA	GCGCGGCGGG		5520
5521 TGTGGTGGT	ACGCCAGCG	TGACCGCTAC		ACTTGCCAGC	GCCCTAGCGC	CCGCTCCTT		5580
5581 CGCTTCTTC	CCTCCCTT	TCGCCACGTT		CGCCGGCTT	CCCCGCAAG	CTCTAAATCG		5640
5641 GGGGCTCC	TTAGGGTCC	GATTAGTGC		TTTACGGA	CTCGACCCCA	AAAAACTTGA		5700
5701 TTTGGGTGAT	GGTCACGTA	GTGGGCCATC		GCCCTGATAG	ACGGTTTT	GCCCTTTGAC		5760
5761 GTTGGACTCC	ACGTCTTTA	ATAGTGGACT		CTTGTCTAA	ACTGAAACAA	CACTCAACCC		5820
5821 TATCTCGGC	TATTCTT	ATTATAAGG		GATTTGCCG	ATTTCGGAAC	CACCATCAAA		5880
5881 CAGGATTTC	GCCTGCTGGG	GCAAACCGC		GTGGACCGCT	TGCTGCAACT	CTCTCAGGGC		5940
5941 CAGGCGTGA	AGGGCAATCA	GTCTGGGCC		GTCTCGCTGG	TGAAAAGAAA	AACCACCC		6000
6001 GCGCCCAATA	CGCAACCGC	CTCTCCCCGC		GGCTGGCC	ATTCTTAAT	GCAGCTGGCA		6060
6061 CGACAGGTT	CCCGACTGGA	AAAGGGCGAG		TGAGCGAAC	GCAATTAATG	TGAGTTAGCT		6120
6121 CACTCATTAG	GCACCCCAGG	CTTACACTT		TATGCTTCCG	GCTCGTATGT	TGTGTGGAAT		6180
6181 TGTGACCGA	TAACAAATT	ACACAGGAAA		CAGCTATGAC	CAGGATGTAC	GAATTGCGAG		6240
6241 GTAGGAGAGC	TCGGCGGATC	CGAGGCTGAA		GGCGATGACC	CTGCTAAGGC	TGCAATTCAAT		6300
6301 AGTTTACAGG	CAAGTGCTAC	TGAGTACATT		GGCTACGCTT	GGGCTATGGT	AGTAGTTATA		6360
6361 GTTGGTGT	CCATAGGGAT	TAATTATT		AAAAAGTTA	CGACCAAGGC	TTCTTAACCA		6420
6421 GCTGGCTAA	TAGCGAAGAG	CCCGC		ATCGCCCTTC	CCAACAGTTG	CGCAGCCTGA		6480
6481 ATGGCGAATG	GGCCTTGT	TGTTTCCGG		CACCA	AGGCGGGA	AGCTGGCTGG		6540
6541 AGTGCATCT	TCCTGAGGCC	GATACGGTCG		TCGTCCCC	AAACTGGCAG	ATGCACGGTT		6600
6601 ACGATGCGCC	CATCTACACC	AACTGTAACCT		ATCCC	GGTCAATCCG	CCGTTGTT		6660
6661 CCACGGAGAA	TCCGACGGGT	TGTTACTCGC		TCACATTAA	TGTTGATGAA	AGCTGGCTAC		6720
6721 AGGAAGGCCA	GACGCGAATT	ATTTTGATG		GGTTCCTAT	TGGTAAAAAA	ATGAGCTGAT		6780
6781 TAAACAAA	TTAACCGGA	ATTTAACAA		ATATTAACG	TTTACAAATT	AAATATTGTC		6840
6841 TTATACATC	TTCTGTTT	TGGGGCTTTT		CTGATTATCA	ACCGGGGTAC	ATATGATTGA		6900
6901 CATGCTAGTT	TTACGATTAC	CGTCATCGA		TTCTCTGTT	TGCTCCAGAC	TCTCAGGCAA		6960
6961 TGACCTGATA	GCCTTGTAG	ATCTCTCAA		AATAGCTACC	CTCTCCGGCA	TTAATT	ATC	7020
7021 AGCTAGAACG	GTTGAATAC	ATATTGATGG		TGATTTGACT	GTCTCCGGCC	TTCTC	CACCC	7080
7081 TTTGAACT	TTACCTACAC	ATACTCAGG		CATTGCA	TTTAAATATG	AGGGTCTAA		7140
7141 AAAC	TTTAT	CCTTGGT		TTCTCCGCA	AAAGTATTAC	AGGGTCATAA		7200
7201 GTTTTGGT	ACAACGGATT	TAGCTTATG		CTCTGAGGCT	TTATTGCTTA	ATTTGCTAA		7260
7261 TTCTTGCCT	TGCCGTATG	ATTATTGGA		CGTT				7294

| 10 | 20 | 30

| 40 | 50 | 60

FIGURE 10-1

ed04

	1	10	20	30	40	50	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTCAAG	CTCGCGCCCC	AAATGAAAAT	60
61	ATAGCTAAC	AGGTATTG	CCATTTGC	AATGTATCTA	ATGGTCAAAC	TAAATCTACT	120
121	CGTCGCGAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCAGACA	CCGTACTTTA	180
181	GTTGCATATT	AAAAACATGT	TGAGCTACAG	CACCAGATT	AGCAATTAAG	CTCTAAGCCA	240
241	TCTGCAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300
301	TTGGAGTTG	CTTCGGTCT	GGTCGCTTT	GAAGCTCGAA	TTAAACGCG	ATATTGAAG	360
361	TCTTCGGGC	TTCCCTTAA	TCTTTTGAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT	420
421	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTCTGAACT	GTAAAGCA	480
481	TTTGAGGGG	ATTCATGAA	TATTTATGAC	GATTCCGCAG	TATTGGACGC	TATCCAGTCT	540
541	AAACATTTA	CTATTACCCC	CTCTGGCAA	ACTTCTTTG	CAAAGCCTC	TCGCTATTTT	600
601	GGTTTTATC	GTGCTCTGGT	AAACGAGGGT	TATGATAGT	TTGCTCTTAC	TATGCTCGT	660
661	AATTCTTTT	GGCCTTATGT	ATCTGCATTA	GTTGAATGTC	GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTT	CTACCTGAA	TAATGTTGTT	CCGTTAGTTC	GTTTATTAA	CGTAGATTT	780
781	TCTTCCAAAC	GTCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCAT	AGGTAATTCA	840
841	CAATGATAA	AGTTGAAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGT	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCCCTGGTC	1020
1021	TGTACACCGT	TCATCTGTCC	TCTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
1081	GTCTGCCCT	CGTTCGGCT	AAAGTAACATG	GAGCAGGTG	CGGATTTCGA	CACAATTAT	1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGACTT	TGTTTCGCG	TTGGTATAAT	CGCTGGGGT	1200
1201	CAAAGATGAG	TGTTTAGTG	TATTCTTCCG	CCTCTTCG	TTAGGGTGG	TGCCCTCGTA	1260
1261	GTGGCATTAC	GTATTTTAC	CGTTTAATGG	AAACTCCCTC	ATGAAAAAGT	CTTAGTCCT	1320
1321	CAAAGCCCTC	GTAGCCGTTG	CTACCCCTCGT	TCCGATGCTG	TCTTCGCTG	CTGAGGGTGA	1380
1381	CGATCCCGCA	AAAGCGGCCT	TAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGTTA	1440
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTAAGAA	1500
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAAA	GGCTCCCTTT	GGAGCCTTTT	1560
1561	TTTTGGAGA	TTTCAACGT	AAAAAAATT	TTATTGCAA	TTCCCTTACT	TGTTCCCTTC	1620
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTAGCAA	AACCCCATAC	AGAAAATTCA	1680
1681	TTTACTAACG	TCTGAAAGA	CGACAAAAT	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740
1741	CTGTTGAAATG	CTACAGCGT	TGTAGTTG	ACTGGTGACC	AAACTCAGTG	TTACGGTACA	1800
1801	TGGGTTCTA	TTGGGCTTG	TATCCCTGAA	AATGAGGGT	GTGGCTCTGA	GGGTGGCGGT	1860
1861	TCTGAGGGT	GGGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
1921	ATTCCGGGCT	ATACTTATAT	CAACCCCTC	GACGGCACTT	ATCCGCCTGG	TACTGAGCAA	1980
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTT	2040
2041	CAGAATAATA	GGTCCGAAA	TAGGCAGGG	GCATTAAC	TTTATACGGG	CACTGTTACT	2100
2101	CAAGGCACTG	ACCCCGTAA	AACTTATTAC	CACTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGGAACGG	TAAATTCA	GACTGCGCTT	TCCATTCTGG	CTTAAATGAA	2220
2221	GATCCATTG	TTTGTAATA	TCAAGGCCAA	TCGTCTGACC	TGCCCTCAACC	TCCTGTCAAT	2280
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGG	GGCGGTTCCG	GTGGTGGCTC	TGTTCCGGT	2400
2401	GATTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGG	CTATGACCGA	AAATGCCGAT	2460
2461	AAAACCGCG	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT	2520
2521	GCTGCTATCG	ATGGTTCAT	TGGTGACGT	TCCGGCTTG	CTAATGGTAA	TGGTGTACT	2580
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCAACCT	2640
2641	TTAATGAATA	ATTTCCGTCA	ATATTTACCT	TCCCTCCCTC	AATCGGTGA	ATGTCGCCCT	2700
2701	TTTGTCTTA	CCGCTGGTAA	ACCATATGAA	TTTCTATTG	ATTGTGACAA	AAATAACTTA	2760
2761	TTCCGTTG	TCTTGTGTT	TCTTTTATAT	GTTGCCACCT	TTATGTAATG	ATTTCTACG	2820
2821	TTTGCTAAC	TACTGCGAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTG	GGTATTCCGT	2880
2881	TATTATTGCG	TTCTCTCGGT	TTCCTCTGG	TAACATTGTT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAAG	ATAGCTATTG	CTATTCATT	GTTCCTTGCT	CTTATTATTG	3000
3001	GGCTTAAC	ATTCCTGTC	GGTTATCTCT	CTGATATTAG	CGCTCAATT	CCCTCTGACT	3060
3061	TTGTTCAAGG	TGTCAGTTA	ATTCTCCCGT	CTAATGGC	TCCCTGTTT	TATGTTATT	3120
3121	TCTCTGTAA	GGCTGCTATT	TTCATTGTTG	ACGTTAAACA	AAAATCGTT	TCTTATTG	3180
3181	ATTGGGATAA	ATAATATGGC	TGTTTATT	GTAACTGGCA	AATTAGGCTC	TGAAAGACG	3240
3241	CTCGTTAGCG	TTGGTAAGAT	TtAGGATAAA	ATTGTAGCTG	GGTGC	AAAAT	3300
3301	CTTGATTAA	GGCTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAC	GCCTCGCGTT	3360
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTTGCTT	CTATGGGCG	CGGTAATGAT	3420
3421	TCCTACGATG	AAAATAAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGC	GGTAC	3480
3481	ACCCGTTCTT	GGAAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGTTTCT	ACATGCTCGT	3540
3541	AAATTAGGAT	GGGATATTAT	TTTTCTTGTT	CAGGACTTAT	CTATTGTTGA	AAACAGGCG	3600
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGTCGTCGTC	TGGACAGAAT	TACTTTACCT	3660

FIGURE 10-2

3841 TCCGGTGT TT ATTCTTATTT AACGCCTTAT
3901 AATTAGGTC AGAAGATGAA GCTTACTAAA
3961 TGTCTGCGA TTGGATTGCG ATCAGCATT
4021 GAGGTAAAAA AGTAGTCTC TCAGACCTAT
4081 CAGCGCTTA ATCTAACGTA TCGCTATGTT
4141 AGCGACGATT TACAGAAGCA AGGTATTCA
4201 ATTAAAAAG GTATTCAAA TGAAATTGTT
4261 TGTTTACATCA TCTCTTTG CTCAAGGTA
4321 TGTAACCTGG TATCAAAGC AATCAGGGA
4381 TACTGTTACT GTATATTCA CTGACGTTA
4441 TGTTTACGT GCTAATAATT TTGATATGTT
4501 TAATCCAAAC AATCAGGATT ATATTGATGA
4561 TGATAATTCC GCTCCTCTG GTGGTTCTT
4621 TTTAAATT AATAACGTT GGGCAAAGGA
4681 GTCTAATACT TCTAAATCCT CAAATGTT
4741 TAGTGACCT AAAGATATT TAGATAACCT
4801 AACTGACCAAG ATATTGATTG AGGGTTGAT
4861 TTTTCATTT GCTGCTGCT CTCAGCGTGG
4921 CCTCACCTCT GTTTATCCT CTGCTGGTGG
4981 AGGGCTATCA GTTCCGGCAT TAAAGACTAA
5041 TATTCTTACG CTTCAAGTC AGAAGGGTTC
5101 TACTGGCTGT GTGACTGGTG AATCTGCCAA
5161 TCAAAATGTA GGTATTCCA TGAGCGTTT
5221 TCTGGATATT ACCAGCAAGG CGCATGTT
5281 TACTAATCAA AGAAGTATTG CTACAACGCT
5341 CGGTGGCTC ACTGATTATA AAAACACTC
5401 AATCCCTTA ATCGGCCTCC TGTTAGCTC
5461 ATACGTGCTC GTCAAAGCAA CCATAGTACG
5521 GTGTGGTGGT TACCGCGCAG GTGACCGCTA
5581 TCGTTTCTT CCCTCCTT CTCGCCACGT
5641 GGGGGCTCCC TTAGGGTTC CGATTTAGTG
5701 ATTTGGGTGA TGGTTCACGT AGTGGGCCAT
5761 CGTTGGAGTC CACGTTCTT AATAGTGGAC
5821 CTATCTCGGG CTATTCTTT GATTATAAG
5881 ACAGGATTT CGCCTGCTGG GGCAAACAG
5941 CCAGGGCTG AAGGCAATC AGCTGTTGCC
6001 GGCGCCAAT ACCAAACCG CCTCTCCCCG
6061 ACGACAGTTT CCCGACTGG AAAGCGGCCA
6121 TCACTATTA GGCACCCAG GCTTTACAT
6181 TTGTGACGGG ATAACAATT CACACGGTC
6241 GTGACTGGGA AAACCTGGC GTTACCCAAG
6301 AAGCACTATT GCACGGCAC TCTTACCGTT
6361 GAGGCATCCG GGAGCTGAAG GCGATGACCC
6421 AAGTGTACT GAGTACATTG GCTACGCTTG
6481 CATAGGGATT AAATTATTCA AAAAGTTAC
6541 GCGCGCACCG ATCGCCCTTC CCAACAGTTG
6601 TGGTTCCGG CACCAAGC GGTGCCGAA
6661 GATACGGCTCG TCGTCCCTC AAACCTGCCAG
6721 AACGTAACCT ATCCATTAC GGTCAATCCG
6781 TGTTACTCGC TCACATTAA TGTTGATGAA
6841 ATTTTGATG CGCTTCTAT TGGTTAAAAA
6901 ATTTAACAA AATATTAACG TTACAAATT
6961 TGGGGTTT CTGATATCA ACCGGGGTAC
7021 CGTTCATCGA TTCTCTGTT TGCTCCAGAC
7081 ATCTCTCAAA AATAGCTACC CTCTCCGGCA
7141 ATATTGATGG TGATTTGACT GTCTCCGGCC
7201 ATTACTCAGG CATTGCAATT AAAATATATG
7261 AAATAAAGGC TTCTCCCGCA AAAGTATTAC
7321 TAGCTTATG CTCTGAGGCT TTATTGCTTA
7381 ATTTATTGGA CGTT

TTATCACACG GTCGGTATT CAAACCATT 3900
ATATATTGAA AAAAGTTTC ACCGCGTCTT 3960
ACATATAGTT ATATAACCCA ACCTAACCG 4020
GATTTGATA AATTCACTAT TGACTCTCT 4080
TTCAAGGATT CTAAGGGAAA ATTAAATTAT 4140
CTCACATATA TTGATTATG TACTGTTCC 4200
AAATGTAATT AATTGTTT TCTTGATGTT 4260
TGAAATGAA ATTTCGCTC TCGCGGATT 4320
ATCCGTTATT GTTCTCCCG ATGTAAGG 4380
ACCTGAAAT CTACGCAATT TCTTATTTC 4440
TGGTTCAATT CCTCCATAA TTCAGAAGTA 4500
ATTGCCATCA TCTGATAATC AGGAATATGA 4560
TGTTCCCAA AATGATAATG TTACTCAAC 4620
TTAATACGA GTTGTCAAT TGGTTGTTAA 4680
ATCTATTGAC GGCTCTAATC TATTAGTTGT 4740
TCCTCAATT CTTCTACTG TTGATTTGCC 4800
ATTGAGGTT CAGCAAGGTG ATGCTTAA 4860
CACTGTTGCA GGCGGTGTTA ATACTGACCG 4920
TTCGTTGGT ATTTTAATG CGCATGTTT 4980
TAGCCATTCA AAAATATTGT CTGTGCCACG 5040
TATCTCTGT GGCCAGAATG TCCCTTTAT 5100
TGTAAATAAT CCATTCAGA CGATTGAGCG 5160
TCCTGTTGCA ATGGCTGGCG GTAATATTGT 5220
GAGTTCTCT ACTCAGGCAA GTGATGTTAT 5280
TAATTGGGT GATGGACAGA CTCTTTACT 5340
TCAAGATCT GGCGTACCGT TCCGTCTAA 5400
CCGCTCTGAT TCCAACGAGG AAACACGTT 5460
CGGCCCTGAG CGGCCATTAA AGCGCGGCCG 5520
CACTTGGCAG CGGCCCTAGCG CCCGCTCCTT 5580
TCGCCGGCTT TCCCCGCAA GCTCTAAATC 5640
CTTTACGGCA CCTCGACCCC AAAAAACTTG 5700
CGGCCCTGATA GACGGTTTT CGCCCTTGA 5760
TCTTGTCTCA AACTGGAAACA ACACTCAACC 5820
GGATTGGC GATTTCGAA CCACCATCAA 5880
CGTGGACCGC TTGCTGCAAC TCTCTCAGGG 5940
CGTCTCGCT GTGAAAAGAA AAACCAACCT 6000
CGCCTGGCC GATTCAATTA TGCACTGGC 6060
GTGACCCAA CGCAATTAT GTGAGTTAGC 6120
TTATGCTTC GGCTCGTATG TTGTGTTGAA 6180
ACTTGGCACT GGCGCTGTT TTACACGTC 6240
CTTTGTACAT GGAGAAAATA AAGTAAACA 6300
ACTGTTTACCT CGTGGCAA AAACCCCTCT 6360
TGCTAAGGCT GCATTCATAA GTTACAGGC 6420
GGCTATGGTA GTAGTTATAG TTGGTGTCTAC 6480
GAGCAAGGCT TCTTAAGCAA TAGCGAAGAG 6540
CGCAGCTGA ATGGCGAATG GCGCTTGCC 6600
AGCTGGCTGG AGTGCAGTCT TCCGTAGGCC 6660
ATGCAACGTT ACGATGCGCC CATCTACACC 6720
CCGTTGTTCC CCACGGAGAA TCCGACGGGT 6780
AGCTGGCTAC AGGAAGGCCA GACCGCAATT 6840
ATGAGCTGAT TTAACAAAAA TTAAACGCCA 6900
AAATATTGCA TTACAAATC TTCTGTTT 6960
ATATGATTGA CATGCTAGTT TTACGATTAC 7020
TCTCAGGCAA TGACCTGATA GCCTTGTAG 7080
TTAATTATC AGCTAGAACG GTTAAATATC 7140
TTTCTCACCC TTTGAAATCT TTACCTACAC 7200
AGGGTTCTAA AAATTTTAT CCTTGCCTTG 7260
AGGGTCATAA TGTTTTGGT ACAACCGATT 7320
ATTTGCTAA TTCTTGCTC TGCGCTGTATG 7380
7394

| 10 | 20 | 30 | 40 | 50 | 60